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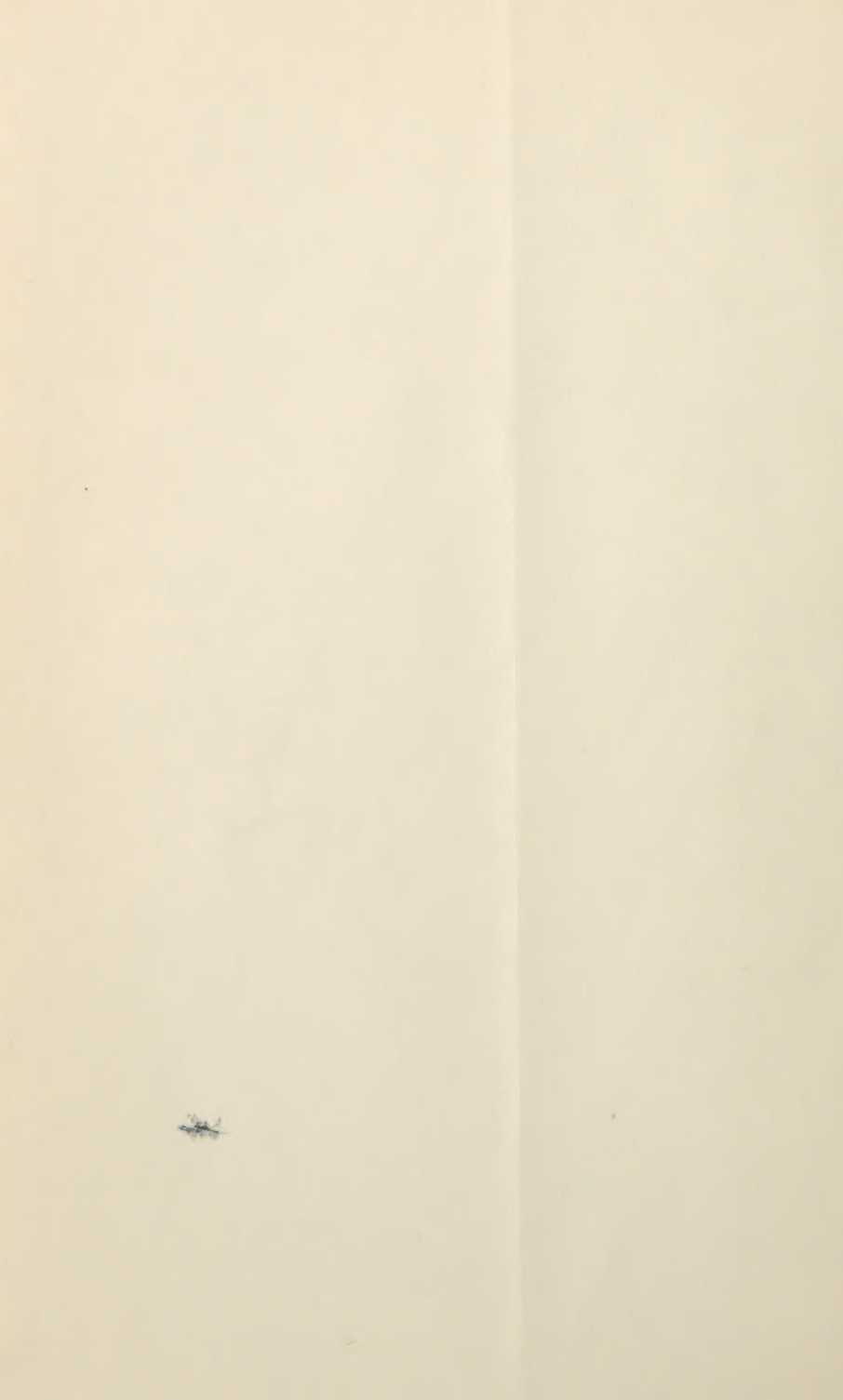
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A SYNOPSIS

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MEDICAL BOTANY

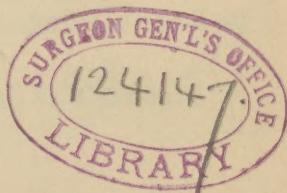
OF THE

UNITED STATES.

BY

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PREFACE.

The preparation of this work has required several years, chiefly because of the difficulty the author has met in securing some of the works to which he has referred. When the study was commenced it was intended only as a personal advantage; but the labor which it has cost, and the hope that it may benefit others, have induced the writer to publish it and lay it before the profession.

Some of the authorities consulted are given below: —

U. S. Dispensatory, National Dispensatory, American Dispensatory; current works on *Materia Medica* and *Therapeutics*, *Organic Materia Medica*, *New Remedies*, *Botanical Journals*, etc.; Gray's *Manual*, *Flora of North America*, etc.; Chapman's *Flora of Southern States*, Coulter's *Botany of Rocky Mountain Region*; Hobb's *Hand-book*; botanical reports in Hayden's *Geological Surveys* by Prof. Coulter; botanical report in Wheeler's *Surveys west of the 100th meridian* by Dr. Rothrock; William's *Med. Botany of Massachusetts*. Porcher's *Med. Plants of South Carolina*. Porcher's *Cryptogamic Plants of U. S.* Clapp's *Systematic Catalogue of Med. Plants of U. S.* *Botany of California* by Gray, Brewer, Watson, Whitney, et al.; botanical report of Minnesota by Upham; etc., etc. I desire to express my thanks to Prof. J. M. Coulter, Ph. D., Prof. O. Marcy, LL. D., and Prof. N. S. Davis, M. D., LL. D., for personal favors and suggestions in the preparation of this work.

J. M. G. CARTER.

WAUKEGAN, ILLINOIS, January 16, 1888.

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ABBREVIATIONS OF THE NAMES OF AUTHORS CITED IN THIS WORK.

Adans.....Adanson.	Michx.....Michaux. (the elder.)
Ait.....Aiton.	Michx. f.....Michaux. (the younger.)
Andr.....Andrews.	Mill.....Miller.
Arn.....Arnott.	Mitch.....Mitchell.
Bart.....Barton.	Moench.....Moenchausen.
Bartr.....Bartram.	Muhl.....Muhlenberg.
Benth.....Bentham.	Murr.....Murray.....
Benth. & Hook. Bentham & Hooker.	Nus.....Nus von Esenback.
Bernh.....Bernhardt.	Nutt.....Nuttall.
Bigel.....Bigelow.	Panz.....Panzer.
Boerh.....Boerhaave.	Pers.....Persoon.
Boiss.....Boissier.	Plum.....Plumier.
Borkh.....Borkhausen.	Poir.....Poiret.
Cass.....Cassini.	R. Br.....R. Brown.
Cav.....Cavanilles.	Raf.....Rafinesque.
Darl.....Darlington.	Rich.....Richard.
DC.....De Candolle.	Richards.....Richardson.
A. DC.....A. De Candolle.	Roem.....Roemer.
Desf.....Desfontaines.	Roth.....Rothrock.
Dill.....Dillenius.	R. & S.....Roemer & Schultes.
Desv.....Desvaux.	Salisb.....Salisbury.
Dougl.....Douglas.	Schlecht.....Schlectendal.
Ehrh.....Ehrhart.	Schreb.....Schreber.
Ell.....Elliott.	Scop.....Scopoli.
Engel.....Engelmann.	Spreng.....Sprengel.
Fisch.....Fischer.	Steud.....Steudel.
Gaertn.....Gaertner.	Sulliv.....Sullivant.
Good.....Goodenough.	Torr.....Torrey.
Gronov....Gronovius.	Torr. & Gr....Torrey & Gray.
Hoffm.....Hoffmann.	Tourn.....Tournefort.
Hook.....Hooker.	Trin.....Trinius.
Huds.....Hudson.	Vaill.....Vaillant.
H. B. K.....Humbolt, Bonpland & Kunth.	Vent.....Ventenat.
Jacq.....Jacquin.	Vill.....Villars.
Juss.....Jussieu.	Wahl.....Wahlenburg.
L. or Linn....Linnæus.	Wallr.....Wallroth.
Lam.....Lamarck.	Walt.....Walter.
L'Her.....L'Heritier.	Wangh.....Wangenheim.
Lindl.....Lindley.	Willd.....Willdenow.
Mich.....Micheli.	With.....Withering.

INTRODUCTION.

The medical plants of the United States embrace about 140 orders, 620 genera, and more than 1300 species and varieties.

There is no doubt that this list will be greatly extended when more extensive investigations have been made. The list is fairly complete, of plants east of the Mississippi River, but the researches of botanists and physicians have not yet closed upon the vegetation west of "The Father of Waters," and until then, we must feel that our medical knowledge of that region is comparatively meagre.

The active principles of plants, to which their remedial virtues are due, are contained in the juice, gum, resin, oil, or vegetable tissue.

Plants mentioned in this work coming under the first class — those where some or all the active principles are contained in the juice (Succus) — are represented by Conium, Aconitum, Taraxicum, Aurantium, etc. Plants of the second class — exuding gum (gummi) are represented by Prunus, Liquidambar, Bursera, etc. Those yielding resins (resina) are Pinus, Larix, Abies, Podophyllum, and others. Of plants that yield oil, we may mention Juniper, Argemone, Gaultheria, Hedeoma, Mentha, Sassafra, Nicotiana, Juglans, Pinus, etc. The last group mentioned — that of plants whose active principles reside in the vegetable structure or tissues — is very large, and represented by all those vegetable remedies usually given in the form of powder.

Since the therapeutic value of a plant so frequently resides in its fluid or exudative constituents, whatever affects these constituents, by changing in any way their composition or modifying their elemental combinations, must modify the remedial action of the agent. That plants vary in their therapeutic virtues, especially when growing under varied conditions, has been shown by Prof. A. Vogel. He has observed that characteristic alkaloids are sometimes absent, when plants are grown under other than their natural conditions. For instance, Hemlock does not yield Conine when grown in Scotland; Cinchona plants growing in hot-houses, are nearly free from quinine; and tannin is found in greatest

quantities in trees exposed to a full supply of sunlight. These observations, which it is hoped may be extended, lead us to believe that the different results obtained by different physicians from administering the same remedy, may be due to the difference in the remedies themselves, produced, perhaps, by the atmospheric, climatic and geologic differences in the places of growth.

These and like considerations, together with observation of the action of plants of the same genus, have led physicians to believe that the therapeutic virtues of all the members of a genus, when that genus is correctly limited and defined, are identical in kind and differ only in degree. With this view in mind, the arrangement of this work will be better understood. The botanical arrangement is chiefly that of Prof. Asa Gray. After each genus is given the medical properties of the plants of the genus, so far as those properties have been observed, and the author has been able to learn.

Introduced and naturalized species are printed in small capitals, to distinguish them from native species which are printed in common type.

The reason for discarding botanical descriptions of species, is that frequently the related species are so similar that the particular plant referred to cannot be defined except by studying the other members of the genus. To avoid making a too voluminous and expensive work the descriptive botany is relegated to the *Manuals of Botany* which every person who desires to become familiar with these plants will probably possess.

The habitat is given in rare instances, where the plant itself is rare, or the propriety of inserting it in this work not generally known.

The dose given refers to the crude drug, and the form in which it is prescribed in this work is restricted to preparations which the physicians can easily prepare — as infusions, decoctions, tinctures and syrups. In some cases where the doses are so well known to the profession that it is not deemed necessary to occupy space by giving them, they have been omitted; in others where the doses are not known, or too imperfectly known, they have likewise been omitted.

MEDICAL PLANTS

OF THE

UNITED STATES.

ORDER, RANUNCULACEÆ. (*Crowfoot Family.*)

CLEMATIS, L. Virgins-Bower

C. viorna, L. (leather-flower.) C. Virginiana, L. (common virgins-bower.) C. crispa, L. (curled-flowered C.) Leaves and flowers used.

Med. prop: Irritant, vesicant, diuretic, diaphoretic; C. viorna and C. virginiana are stimulant and sudorific; in itch.

Dose: dr. ss to dr. j., in infusion.

ANEMONE, L. Anemone, Wind-Flower.

A. cylindrica, Gray (long-fruited A.) A. nemorosa, L. (wood A. wind-flower) A. Ludoviciniana, A. patens, L. var. nuttalliana (pasque-flower, pulsatilla.) A. virginiana, L. (wind-bloom, virginia A.) Flowers and herbs used.

Med. prop.: Rubefacient, diuretic, diaphoretic, ex-

pectorant, mydriatic, emmenagogue; *A. virginiana*. Cautic, used in hollow teeth.

Dose, gr. j to grs. ij in powder or tincture.

HEPATICA, Dill. Liver-Leaf. Hepatica.

H. acutiloba, De. (liver-weed. Sharp-lobed *H.* liverwort.) *H. triloba*, Chaix. (round-lobed *H.* noble liverwort.) The plant is used.

Med. prop.: A mild mucilaginous astringent, hepatic, pectoral, demulcent, deobstruant, tonic.

Dose, dr. ss to drs. ij., in decoction.

THALICTRUM, Tourn. Meadow-Rue.

T. anemonoides, Michx. (Rue-Anemone. poor man's rhubarb.) *T. dioicum*, L. (Early meadow-rue, feathered columbine.) The root is used.

Med. prop.: Purgative, diuretic.

RANUNCULUS, L. Crowfoot. Buttercup.

R. abortivus, L. (small-flowered crowfoot.) *R. acris*, L. (Yellow-weed, Tall C. or buttercups, bachelor's buttons, globe amaranth.) *R. alismæfolius*, Geyer. (Waterplantain, spearwort.) *R. bulbosus*, L. (Bulbosus C., buttercups, pilewort.) *R. Flammula*, L. (Smaller spearwort.) *R. Pennsylvanicus*, L. (Bristly C.) *R. repens*, L. (Creeping C.) *R. sceleratus*, L. (Cursed C.) *R. aquatilis*, L. Var. *trichophyllus*, Chaix. (Common white water C.) The plant is used. Should be freshly gathered.

Med. prop.: Rubefacient, counter-irritant, vesicant; *R. bulbosus* is said to be narcotic; *R. flammula* is emetic, in the form of a distillate. Seldom used internally.

CALTHA, L. Marsh Marigold.

C. palustris, L. (American cowslip, marsh marigold, palsywort, water dragon.) Plant used.

Med. prop.: Expectorant, pectoral; in cough.

TROLLIUS, L. Globe-Flower.

T. laxus. Salisb. (Spreading globe-flower.) Plant acrid, rubefacient. Used externally.

COPTIS, SALISB. Goldthread.

C. trifolia, Salisb. (Mouth-root, canker-root, three-leaved G.) Root used.

Med. prop.: Bitter, tonic, astringent, alterative and detergent; in thrush and other forms of sore mouth. Dose, grs. x to grs. xxx in powder or infusion, or tincture. Use as mouth wash.

HELLEBORUS, L. Hellebore.

H. viridis, L. (Green hellebore. American H.) Root used.

Med. prop.: Irritant, rubefacient, cathartic, diuretic, emmenagogue.

Dose, grs. ij to grs. xx in substance, decoction or tincture.

AQUILEGIA, TOURN. Columbine.

A. canadensis, L. (Wild columbine.) *A. vulgaris*, L. (Garden C.) Plant used.

Med. prop.: Diuretic, emmenagogue, sudorific, tonic, antiscorbutic, discutient, diaphoretic.

DELPHINIUM TOURN. Larkspur.

D. consolida L. (Field larkspur, stagger-weed. D.) *exaltum*, Ait. (Tall L.) Root and flower used in medicine. The seed is poisonous and used as an insecticide.

Med. prop.: Diuretic, emmenagogue, vulnerary, vermifuge; poisonous; large doses cathartic.

Dose, grs. v to grs. x in tincture.

ACONITUM, TOURN. Aconite. Monkshood. Wolfsbane.

A. columbianum, Nutt. *A. reclinatum*, Gray. (Trailing wolfsbane.) *A. uncinatum*, L. (American or wild monkshood.) Entire plant used.

Med. prop.: Arterial sedative, diaphoretic anodyne, narcotic.

Dose, of leaves gr. j to grs. ij in infusion. May be used in poultice to throat in diphtheria or tonsillitis. Tr. of root (ozs. ijss to Oj of alcohol) may be given in doses of gtts. ij to gtts. vii.

ZANTHORHIZA, Marshall. Shrub Yellow-root.

Z. apiifolia, L'Her. (Yellow-root. Yellow-wort.) Root used.

Med. prop.: A fine bitter tonic.

Give in infusion.

HYDRASTIS, L. Orange Root, Yellow Puccoon.

H. canadensis L. (Yellow Eye, Golden Seal, Yellow-root.) Root used.

Med. prop.: Tonic antiperiodic, laxative, detergent, alterative, diuretic, ophthalmic.

Dose, grs. v. to grs. xl in decoction. Excellent in sore mouth.

ACTÆA, L. Baneberry. Herb Christopher.

A. alba, Bigell, (White Baneberry. White Cohosh.) *A. spicata*, L. (Rattlesnake Herb.) Var. *arguta*, Torr. Var. *ruba*, Michx. (Red Cohosh, Red Baneberry.) Root.

Med. prop.: Emetic, purgative, emmenagogue, astringent, vulnerary. Buds used to dye black.

CIMICIFUGA, L. Bugbane. Cohosh.

C. racemosa, L. (Black Snakeroot, Black Cohosh.)

Med. prop.: The root is alterative, nervine, expectorant, emmenagogue, diaphoretic, antirheumatic, narcotic.

Dose, dr. 1-4 to dr. 1 in substance, decoction or tincture. In chronic rheumatism.

ADONIS, L.

A. AUTUMNALIS, L. (Pheasant's eye.) Plant used.

Med. prop.: Astringent, bitter.

NIGELLA, L.

N. DAMASCENA, L. (Fennel-Flower. Black Cumin.)

Med. prop.: The seeds are pungent, carminative and galactagogue.

ORDER, MAGNOLIACEÆ. (*Magnolis.*)

MAGNOLIA, L. Magnolia.

M. glauca, L. (Swamp Sassafras. Small or Laurel M. Sweet Bay.) M. acuminata, L. (Cucumber-tree.) M. grandiflora, L. (Great Laurel, M.) M. umbrella, Lam. (Umbrella-tree.) M. macrophylla, Michx. (Great or Big-leaved, M.) Bark used.

Med. prop.: Tonic, astringent, stimulant, bitter, febrifuge, diaphoretic, aromatic, antirheumatic, antiperiodic.

Dose, dr. ss to dr. j. in substance, infusion or tincture (made with dil. alcohol).

A popular remedy for chronic rheumatism.

LIRIODENDRON, L. Tulip-tree. Canoe-wood.

L. Tulipifera, L. (Yellow Poplar. White Poplar. White-wood.) Bark.

Med. prop.: Bitter, aromatic, stimulant, tonic, antiperiodic, diaphoretic, antirheumatic; in intermittent fever.

Dose, dr. ss to drs. ij, in infusion, tincture or substance.

ILLICIUM, L. Anise-tree.

I. Floridanum, Ellis. (Sweet-Laurel. Florida Anise-tree.) I. parniflorum, Michx. (Small flowered Anisetree.)

Med. prop.: Bark bitter, pungent; seed aromatic; leaves aromatic and poisonous. *I. parviflorum* resembles sassafras.

ORDER, ANONACEAE. (*Custard Apple Family.*)

ASIMINA, ADANS. North American Papaw.

A. triloba Dunal. (Common Papaw.) Fruit edible.
Med. prop.: Juice vermifuge.

ORDER MENISPERNACEAE. (*Moonseed Family.*)

MENISPERMUM, L. Moonseed. Yellow Parilla.

M. Canadense, L. (Yellow Sarsaparilla. Common Moonseed. Texas Sarsaparilla.) Root used.

Med. prop.: Excitant, tonic, bitter, laxative, alterative, diuretic.

ORDER, BERBERIDACEÆ. (*Barberry Family.*)

BERBERIS, L. Barberry.

B. Aquifolium, Pursh. (Holly-leaved B. Oregon Grape.)

B. Canadensis, Pursh. (American B.) *B. VULGARIS*, L. (Jaundice-berry. Common B.)

Med. prop.: Root and bark bitter, astringent, laxative, hepatic; buds acid, refrigerant. Sometimes used as an antiperiodic tonic. May be used in the form of decoction; in jaundice, with cathartic. Fermented juice of *B. Aquifolium* used as wine.

CAULOPHYLLUM, Michx. Blue Cohosh.

C. thalictroides, Michx. (Yellow Ginseng. Pappoose-root.) Root used.

Med. prop.: Stimulant, emmenagogue, sudorific, anti-spasmodic, oxytocic, diuretic, diaphoretic.

Dose, grs. x to grs. xxx in infusion, decoction, or tincture.

JEFFERSONIA, Barton. Twin-leaf.

J. diphylia, Pers. (Rheumatism-root. Yellow-root.) Root used.

Med. prop.: Diuretic, alterative, antirheumatic, anti-syphilitic, emetic, expectorant, tonic.

PODOPHYLLUM, L. May Apple. Mandrake.

P. peltatum, L. (Common M. Yellow-berry. Indian Apple. American Mandrake. Ducksfoot.) Root used.

Med. prop.: Cathartic, cholagogue, resolvent, alterative, emetic, diaphoretic, vermifuge, emmenagogue; in congestion of liver.

Dose, grs. x to grs. xx, in substance, decoction or tincture.

ORDER, NYMPHÆACEÆ. (*Water-lily Family.*)

BRASENIA, Schreber. Water-Shield.

B. peltata, Pursh. Leaves used — fresh.

Med. prop.: Mucilaginous, pectoral, astringent. Used in pulmonary complaints and dysentery.

NELUMBIUM, Juss. Nelumbo. Sacred Bean.

N. luteum, Wild. (Yellow Nelumbo. Water Chinquepin.) Root, leaves and seed used.

Med. prop.: Refrigerant, laxative, diuretic, emollient. Edible.

NYMPHÆA, Tourn. Water-Nymph. Water-Lily.

N. odorata, Ait. (White or Sweet-scented Water-Lily. White Pond Lily.) N. tuberosa, Paine. (Tuber—bearing W.) Root and leaves used.

Med. prop.: Astringent, vulnerary, discutient.

NUPHAR, Smith. Yellow Pond-Lily. Spatter Dock.

N. advena, Ait. (Common Y. Beaver-Root. Yellow Water-Lily.) N. Luteum, Smith.

Med. prop.: Root astringent, emollient, discutient, demulcient, tonic, uterine tonic.

ORDER, SARRACENIACEÆ. (*Pitcher Plant Family.*)

DARLINGTONIA, Torr.

D. Californica, Torr. (California or Side Flowering Saddle Flower. California Pitcher Plant.) The plant is an insecticide.

SARRACENIA, Tourn. Side-saddle Flower.

S. purpurea, L. (S. S. Flower. Small-pox Plant. Pitcher P. Hunts-mans Cup.) S. flava, L. (Trumpet-leaf.) S. Drumondii, Croom. S. rubra, Walt. (Red-flowered Trumpet-leaf.) S. variolaris, Michx. (Spotted Trumpet-leaf.) S. Psittacina, Michx. (Parrot-beaked Pitcher P.) The plant is used.

Med. prop.: Stimulant, tonic, bitter, diuretic, astringent, laxative: S. variolaris used in small-pox.

Dose, grs. v to grs. x, in tincture.

ORDER, PAPAVERACEÆ. (*Poppy Family.*)

PAPANER, L. Poppy.

P. SOMEIFRUM, L. (Common Poppy.) P. DUBIUM, L. (Smooth-fruited Co. P.) P. ARGEMONE, L. (Rough-fruited C.) Seed used.

Med. prop.: Narcotic, anodyne, hypnotic, stimulant.

Dose, gr. ss to gr. j. in substance, decoction or tincture.

ARGEMONE, L. Prickly Poppy.

A. MEXICANA, L. (Mexican, P. Jamaica Yellow Thistle. Prickly Poppy.)

Med. prop.: Plant — anodyne, diuretic, cathartic, emetic; Seed — ophthalmic.

STYLOPHORUM, Nutt. Celandine Poppy.

S. diphyllum, Nutt. Celadine (Horn) Poppy. Yellow Poppy.

Med. prop.: The foetid juice is narcotic, diuretic, lithon-tryptic, vulnerary.

CHELIDONIUM, L. Celandine.

C. MAJUS, L. (Celandine. Tetterwort.)

Med. prop.: Plant hydragogue, aperient, diuretic; juice—exanthematous, stimulant, diuretic, perhaps diaphoretic and expectorant.

Dose of the dried root dr. ss to dr. j; green root, m j to ms. ij; dose of juice gtts. x to gtts. xx.

SANGUINARIA, Dill. Blood-Root.

S. Canadensis, L. (Red Puccoon-root. Blood-root.)

Med. prop.: Root used: emetic, sedative, stimulant, diuretic, diaphoretic, expectorant, hepatic, emmenagogue, tonic, resolvent, antiseptic, detergent, errhine, escharotic.

Dose gr. j to grs. v: grs. v. to grs. xx. in acetous infusion or tincture.

GLAUCIUM, Tourn. Horn-Poppy.

G. LUTEUM, Scop. (Bruise-Root.) Plant Anodyne.

ORDER, FUMARIACEÆ. (*Fumitory Family.*)

DICENTRA, Borkh. Dutchmans Breeches.

Canadensis, D. C. (Squirrel Corn.) D. Cucullaria, D. C. (Dutchmans B.) D. exima, D. C.

Med. prop.: Root is antisyphilitic, alterative, diuretic, diaphoretic, tonic.

Dose gr. x to gr. xxx. in substance, decoction or tincture.

D. formosa, D. C. Used in the same way.

FUMARIA, L. Fumitory.

F. Officinalis, L. (Common F.) Leaves and juice used.

Med. prop.: Bitter, tonic, alterative, diuretic, laxative, sedative. Decoction of leaves used.

ORDER, CRUCIFERÆ. (*Mustard Family.*)

NASTURTIUM, R. Water Cress.

N. ARMORACIA, Fries. (Horse-radish.) N. Palustris.

D. C. (Marsh Cress. Yellow Water Cress.) N. Officinale,

R. Br. (True Water Cress.) N. Sylvestre, R. Br. (Yellow

C.) Plant used.

Med. prop.: Depurative, antiscorbutic, stimulant, diuretic, deobstruent, hepatic, emmenagogue.

N. ARMORACIA is rubefacient; and is used as a condiment.

DENTARIA, L. Toothwort. Pepper-root.

D. diphylla, L. (Toothwort. Crinkle-root.) Root used like mustard.

CARDMINE, L. Bitter Cress.

C. pratensis, L. (Cuckoo Flower.) C. rhomboidea,

D. C. (Springcress.) Plant used.

Med. prop.: Stimulant, diaphoretic, diuretic, antiscorbutic, depurative, antispasmodic, antiepileptic: condiment.

ARABIS, L. Rock-Cress.

A. Lyallii, Watson. (Alpine Rock-Cress.) A. Canadensis. L. (Singles-pod.) A. perfoliata, Lam. (Tower Mustard.)

Med. prop.: *A. Lyallii*, antiscorbutic; plant used. Of the others, the root and leaves are pungent, antiscorbutic, diuretic.

CAULANTHUS, Watson.

C. crassicaulis, Watson. (Wild Cabbage.) In Nevada.
Med. prop., Same as cabbage.

BARBAREA, R. Br. Winter Cress.

B. vulgaris, R. Br. (Common Winter C. Yellow Rocket.)
B. PRÆCOX R. B. (Early Winter C. Scurvy Grass.)
B. PRÆCOX is cultivated as a winter salad.

Med. prop.; Plant antiscorbutic, pectoral, detergent;
seed is acrid, lithontryptic.

ERYSIMUM, L. Treacle-Mustard.

E. cheiranthoides, L. (Worm-seed Mustard.)

Med. prop.: Herb is a vermifuge and stomachic. May be used in decoction.

SISYMDRIUM, L. Hedge Mustard.

S. officinale, Scop. (Hedge M.) *S. Thaliana*, Gand.
(Mouse-ear Cress.) *S. Sophia*, L. (Flix-weed.)

Med. prop.: Plant is astringent, detergent, antiscorbutic, lithontryptic, vulnerary, pectoral. May be used in decoction or syrup.

BRASSICA, Tourn.

B. Sinapistrum, Boissier. (Wild Mustard. Charlock.)
B. Alba, Hooker. (White Mustard.) *B. Nigra*, Koch.
(Black M.) *B. Campestris*, L. *B. Campestris* is edible:
yields oil.

Med. prop.: Seed—pungent, laxative, stimulant, diuretic, acrid, rubefacient, vesicant; condiment. The acrid property of the seed makes it a quickly acting emetic given in copious draughts of warm water. Chiefly used externally.

DRABA, L. Whitlow-grass.

D. incana, L. (Nail-wort.) *D. verna*, L. (Whitlow G.)

Med. prop.: Seed pungent, detersive.

CAMELINA. Crantz., False Flax.

C. sativa, Crantz. (Mad-wort. False Wild Flax.)

Med. prop.: Leaves are vermifuge; seed used to make oil. This remedy has been used in palsy.

CAPSELLA, Vent. Shepherd's purse.

C. Bursa-pastoris, Moench. The herb is used.

Med. prop.: Acrid, detergent, astringent, bitter, antiscorbutic. Used in dropsy and hæmaturia. Dose of the freshly expressed juice, f oz ij to f oz iv.

SUBULARIA, L. Awlwort.

S. aquatica, L. entire plant is used.

Med. prop.: Refrigerant, vulnerary.

THLAPSI, Tourn. Pennycress.

T. arvense, L. (Field P. Mithridate Mustard.) Used like Mustard.

LEPIDIUM, L. Pepperwort. Peppergrass.

L. campestre, L. (Bastard Cress.) *L. Virginicum*. L. (American Water Cress. Wild Peppergrass. Pepper Cress.) The *L. campestre* is used as salad.

Med. prop.: Seed of *L. campestre* acrid, astringent.

Leaves of *L. Virginicum* pungent, diuretic, alterative, antiscorbutic.

RAPHANUS, L. Radish.

R. sativus, L. (Garden Radish.) Root edible.

Med. prop.: Diuretic, antiscorbutic.

ORDER, CAPPARIDACEÆ. (*Caper Family.*)

GYNANDROPSIS, D. C. (Cleome.)

G. pentaphylla, D. C. Juice used in earache.

Med. prop.: Diaphoretic, sedative.

POLANISIA, Raf. Polanisia.

P. graveolens, Raf. (Wormweed.) Plant used.

Med. prop.: Pungent, vesicant, counter irritant, vermifuge.

ORDER, RESEDACEÆ. (*Mignonette Family.*)

RESEDA, L. Mignonette. Dyer's Rocket.

R. Luteola, L. (Yellow-weed. Dyer's-weed or wold.)
A yellow dye.

Med. prop.: Depurative.

ORDER, VIOLACEÆ. (*Violet Family.*)

VIOLA, L. Violet. Heart-ease.

Blanda, Willd. (Sweet White V.) V. Canadensis, L. (Canada V.) V. canina, L. Var. Sylvestris Regal. (Dog V.) V. cucullata, Ait. (Common Blue V.) V. odorata, L. (Sweet or English V.) palustris, L. (Marsh V.) V. pedata, L. (Bird-foot V.) V. rostrata, Pursh. (Beaked V.) (Canker-violet. Long-spurred V.) V. tricolor, L. (Pansy, Hearts-ease.)

Med. prop.: Root of V. canina emetic, cathartic, vulnerary; flower and seed of V. odorata emetic, cathartic, lithontryptic; plant in all-pectoral, mucilaginous, laxative, emollient, alterative emetic; V. rostrata used in canker.

Dose of root gr. xx to gr. xxx. Give in syrup or decoction.

ORDER, CISTACEÆ. (*Rock-rose Family.*)

HELIANTHEMUM, Tourn. Rock-rose.

H. Canadense, Michx. (Scrofula-plant. Frost-weed. Frost-wort.)

H. corymbosum, Michx. (Rock-rose. Herb) used.

Med. prop.: Alterative, tonic, aromatic. Used in Scrofula, prurigo and scarlatina. Given in powder, decoction syrup, or tincture.

LECHEA, L. Pinweed.

L. major, Michx. (Greater Pinweed.) The plant is used.

Med. prop.: Tonic, febrifuge, anti-periodic.

ORDER, DROSERACEÆ. (*Sundew Family.*)

DROSER, L. Sundew.

D. rotundifolia, L. (Youthwort. Lustwort. Round-leaved S.) D. longifolia, L. (Longleaved S.) The plant is used.

Med. prop.: Acid, detergent, rubefacient, pectoral, aphrodisiac.

ORDER, HYPERICACEÆ. (*St. John's-wort Family.*)

HYPERICUM, L. St. John's-wort.

H. perforatum, L. (Johnswort. Common. St. J.) H. mutilum, L. (Locentaury.) H. Sardothea, Michx. Pine-weed. Orange-grass.) The plant used.

Med. prop.: Aromatic, bitter, tonic, astringent, resolvent, nervine; *H. Sarcocolla* useful in sprains.

Remedial value of all related somewhat to the turpentine.

ELODES, Adans. Marsh St. John's wort.

E. Virginica, Nutt. Used like preceding.

ORDER, CARYOPHYLLACEÆ. (*Pink Family.*)

DIANTHUS, L. Pink. Carnation.

D. Armeria, L. (Deptford Pink.) Flowers used.

Med. prop.: Cordial, anti-spasmodic, nervine. Used in syrup.

SAPONARIA, L. Soapwort. Soaproot.

S. officinalis, L. (Old Maid's Pink. Common Soapwort. Sheep-weed. Bouncing Bet.)

Med. prop.: The plant is used, and is tonic, diaphoretic, alterative, antisyphilitic, exanthematous, saponaceous.

Dose: two to four pints of decoction daily.

VACCARIA, Medik. Cowherb.

V. vulgaris, Host. (Field Soapwort.) Plant is galactagogue to cows. Seed-diuretic.

SILENE, L. Catchfly. Campion.

S. Armeria, L. (Sweet-William, Catch-fly. Lime-wort Catch-fly.)

S. inflata, Smith. (Bladder Campion. Campion Pink. Spatling Poppy.)

S. Pennsylvanica, Michx. (Wild Pink. Pink Catchfly.)

S. Virginica, L. (Fire Pink. Catchfly.) Plant used.

Med. prop.: Viscid, cordial, nervine. Root of *A. Armeria* has the same properties. *S. Virginica* used like *Spigelia*.

LYCHNIS, Tourn. Lychnis. Cockle.

L. Githago Lam. (Corn Cockle.)

L. Vespertina Sibth. (Evening L. White Soapwort.)

Med. prop.: Root and leaves saponaceous, detergent; seed depurative, acrid, purgative; root of L. Githago, astringent.

STELLARIA, L. Chickweed. Starwort.

✓ S. Media Smith. (Stitchwort. Common Chickweed.)

Med. prop.: Plant is refrigerant, demulcent, mucilaginous, discutient, alterative.

CERASTIUM, L. (Mouse-ear Chickweed.)

C. Vulgatum L. (Mouse-ear C.) Used as salad.

Med. prop.: Herb used as refrigerant, antiscorbutic.

SCLERANTHUS, L. Knawel.

S. Annus L. (Gravel Chickweed.)

Med. prop.: Plant astringent, emollient, diuretic.

MOLLUGO, L. Indian-Chickweed.

M. Verticillata L. (Carpet-weed.)

Med. prop.: Plant-refrigerant, diuretic.

ORDER, PORTULACACEÆ. (*Purslane Family.*)

PORTULACA, Tourn. Purslane.

P. Oleracea L. (Common Purslane.) Plant used.

Med. prop.: Antiseptic, diuretic, aperient, vulnerary.

CLAYTONIA, L. Spring Beauty.

C. Caroliniana, Michx. (Pigeon-root.) Leaves as salad.

Med. prop.: Leaves-antiscorbutic.

ORDER, MALVACEÆ. (*Mallow Family.*)

ABUTILON, Tourn. Indian Mallow.

A. Avicennæ Gaertn. (Velvet leaf. A. parvulum, Gray. Indian M.) Plant is used.

Med. prop.: Mucilaginous, demulcent, emollient, diuretic.

ALTHÆA, L. Marsh Mallow.

A. OFFICINALIS, L. (Mortification-root. Sweat-weed. Common Marsh Mallow.)

Med. prop.: Root and leaves—mucilaginous, dimulcent. diuretic. Used ad lib. in decoction or syrup; also as poultice.

MALVA, L. Mallow.

M. Alcea, L. (Vervain Mallow.) M. rotundifolia, L. (Common M. Low M. Cheeses.) M. Moschata, L. (Musk M.) M. Sylvestris, L. (High M.)

Med. prop.: Plant—mucilaginous, diuretic, emollient; flower—pectoral; root of M. Alcea like Althæa. Used in infusion or decoction.

SIDA, L. Sida.

S. spinosa, L. (False Mallows.) Leaves used.

Med. prop.: Diuretic, demulcent, vulnerary.

HIBISCUS L. Rose Mallow.

H. moscheutos, L. (Water-Mallow. Swamp Rose-mallow.) H. Trionum, L. (Bladder Ketmia.)

Med. prop.: Plant—mucilaginous, demulcent; seed—pungent, cordial, stomachic, nervine.

ORDER, TILIACEÆ. (*Linden Family.*)

TILIA, L. Linden. Basswood.

T. Americana, L. (White-wood. Basswood. American Bass. American Linden.)

Med. prop.: Bark — emollient, mucilaginous; flower — stimulant, sedative, nervine.

ORDER, STERCULIACEÆ.

FREMONTIA, Torr. False Slippery Elm.

F. Californica, Torr. (False Slippery Elm.)

Med. prop.: Bark mucilaginous, a substitute for *Ulmus fulva*.ORDER, CAMELLIACEÆ. (*Camellia Family.*)

GORDONIA, Ellis. Loblolly Bay.

G. Lasianthus, L. (Loblolly B. Holly Bay.) A Red dye.

Med. prop.: Astringent.

ORDER, AURANTACEÆ. (*Orange Family.*)

CITRUS, L.

C. aurantium, Risso. (Sweet Orange.) C. Limonium, Risso, (Lemon.) C. VULGARIS, Risso. (Bitter Orange.)

Med. prop.: Fruit — acid, refrigerant, antiscorbutic. aromatic, bitter.

ORDER, CEDRELACEÆ. (*Mahogany Family.*)

SWIETENIA, L. Mahogany.

S. Mahogany, L. (Mahogany tree.) In South Florida.
Med. prop.: Bark—astringent, febrifuge.

ORDER, LINACEÆ. (*Flax Family.*)

LINUM, L. Flax.

L. Virginianum, L. (Wild Flax.) L. (Perennial F.)
L. USITATISSIMUM, L. (Common F.) Plant yields linen
fibre, seed. linseed oil.

Med. prop.: Seed—pectoral, demulcent, mucilaginous,
emollient; in poultice for lung diseases; maturing.

Dose *ad lib.* in decoction.

ORDER, GERANIACEÆ. (*Geranium Family.*)

GERANIUM, L. Cranesbill. Geranium.

G. maculatum, L. (Wild Cranesbill. American Kino-
root. Spotted Geranium. Spotted C.)

G. Carolinianum, L. (Carolina C.) G. DISECTUM, L.
(Cut-leaved C. Wood Geranium.) G. PUSILLUM, L.
(Small-flowered C.) G. Robertanum, L. (Herb Robert.
Rock weed.)

Med. prop.: Root—astringent, tonic, styptic, antiseptic,
detergent. Herb of G. Robertanum—bitter, astringent,
febrifuge, nephritic. Dose, gr. xx to gr. xxx, in substance,
decoction or tincture.

ERODIUM, L'HER. Storksbill.

E. CICUTARIUM, L'Her. (Hemlock-Storksbill.)

Med. prop.: Root—astringent, detergent, diuretic; in
poultices.

IMPATIENS, L. Balsam. Jewel-weed.

I. pallida, Nutt. (Pale Touch-me-not.) *I. fulva*, Nutt. (Spotted T.) Juice is acrid. Plant is used.

Med. prop.: Diuretic, emetic, alterative, cathartic. The plant boiled in lard is used as an ointment for piles.

OXALIS, L. Wood-Sorrel.

O. Acetosella, L. (Shamrock. Common Wood-sorrel. *Oxalis*.) *O. Violacea*, L. (Violet W.) *O. Stricta*, L. (Yellow W.) *O. CORNICULLATA*, L. (Ladies W.) The plant used.

Med. prop.: Acrid, refrigerant, antiscorbutic, diuretic, astringent; in chronic catarrh. May be used in infusion.

ORDER, ZYGOPHYLLACEÆ. (*Bean-Caper Family*.)

LARREA, Cav. Creosote-Bush.

L. Mexicana, Moricand. (Creosote-plant.) Used by Indians to make glue.

Med. prop.: Plant — resinous; antirheumatic, antisyphilitic. May be used in infusion or decoction; better in tincture.

GUAIACUM, Plum. Lignum Vitae Tree.

G. sanctum, L. (Guaic. Lignum Vitae.) In South Florida.

Med. prop.: Bark — acrid; wood — stimulant, diaphoretic; gum — resinous, antirheumatic. Used as *G. officinalis*; in tincture.

ORDER, RUTACEÆ. (*Rue Family*.)

PTELEA, L. Shrubby Trefoil.

Hop-Tree. Wingseed., *P. trifoliata* L. (Ague Bark. Wafer Ash. Stinking Ash.) Bark used in infusion.

Med. prop.: Tonic, stimulant, alterative, antiperiodic, anthelmintic, stomachic.

ZANTHOXYLUM, Colden. Prickly Ash.

Z. Americana, Mill. (Northern Prickly A. Tooth-ache Tree.) Z. Caroliniana, Lam. (Sea Ash. Southern P.) Bark used.

Med. prop.: Pungent, tonic, stimulant, alterative, sialagogue. May be given in infusion.

ORDER, SIMARUBACEÆ.

SILANTUS, Desf. Ailantus.

A. GLANDULOSUS, Desf. (Tree of Heaven. Chinese Snuzach.)

Med. prop.: Bark — Anthelmintic.

ORDER, ANACARDIACEÆ. (*Cashew Family.*)

RHUS, L. Sumach.

R. copallina, L. (Dwarf Sumach. Mountain S.) R. aromatic, a Ait. (Fragrant S.) R. diversiloba, Torr. and Gr. California Poison S. (R. Galbra,) L. (Pennsylvania S. Smooth S. Indian Salt-bush.)

R. integrifolia, Benth & Hook. R. Laurina, Nutt. R. Metopium, L. (Hog-gum-Tree.) R. Toxicodendron, L. (Poison Vine. Poison Ivy Poison Oak. Climbing Sumach.) R. typhina, L. (Vinegar Plant. Stags Horn), (S. American Sumach. Velvet or Virginia Sumach.) R. pumila, Michx. (Southern Poison Sumach.) R. venenta, DE. (Poison Ash. Poison S. or Dogwood.) R. Tax. Var. radicans, Torr. California species not fully investigated, mostly aromatic and refrigerant. R. diversiloba, R. pumilum, poisonous.

R. Metopium said to yield hog-gum.

S. venenata is the most poisonous species.

R. Toxicodendron may be handled by many persons with impunity. This plant has received much attention within the last few years; but probably has been lauded too highly as a remedy in nervous diseases.

R. diversiloba is likewise poisonous; but Dr. Canfield considers that *GRINDELIA HIRSUTULA* will prove an invariable antidote. The bruised plant or a strong decoction should be applied to the inflamed and poisoned parts.

Med. prop.: *R. glabra*, *R. copallina*, — Bark and leaves — tonic, astringent, antiseptic; fruit — diuretic, refrigerant, acid.

R. Tox. and Var. *radicans*, plant poisonous, rubefacient, vesicant. Leaves of *R. Tox.* in paralysis. *R. radicans* — plant — diuretic, diaphoretic, laxative, stimulant. Used in infusion.

R. venenata like *R. Toxicodendron*.

ORDER, BURSERACEÆ. (*Torchwood Family.*)

BURSERA, Jacquin.

B. gumifera, Jacq. (*Caranna-gum.*) Gum like balsams and turpentine.

SCHINUS, L. Peruvian Mastich.

S. MOLLE, L. Cultivated in California.

Med. prop.: Juice — purgative; drupes — pungent.

ORDER, VITACEÆ. (*Vine Family.*)

VITIS, Tourn. Vine. Grape.

V. æstivalis, Michx. (*Summer G.*) *V. cordifolia*, Michx. (*Winter or Frost G.*) *V. Labrusca*, L. (*Northern Fox-G.*) *V. vulpina*. (*Muscadine, Southern F.*)

Med. prop.: Fruit — acid, refrigerant, antiscorbutic.

AMPELOPSIS, Michx. Virginia Creeper.

(Michx. *A. quinquefolia*, Wild Woodbine. American Ivy or Woodbine.)

Med. prop.: Bark and twigs — astringent, tonic, alterative, expectorant. May be used in infusion.

ORDER, RHAMNACEÆ. (*Buck-thorn Family.*)

CEANOTHUS, L. Red-root.

C. Americanus, L. (Wild Snow ball. New Jersey Tea. Walpole Tea.) Bark and root used.

Med. prop.: Astringent, expectorant, stimulant, sedative antisyphilitic, purgative. Used in form of infusion or decoction for dysentery, and sore-throat of scarlet fever; locally in apthous affections of the mouth.

RHAMNUS, Tourn. Buckthorn.

R. catharticus, L. (Purging-berries. Common Buckthorn. Purging Buckthorn.) *R. Purshiana*. DC. (California B.) Of *R. catharticus*, the fruit is used; of *R. Purshiana*, the bark is used under the name Cascara Sagrada.

Med. prop.: Laxative, purgative, depurative.

May be given in infusion or decoction. Dose gr. v to gr. x.

ORDER, CELASTRACEÆ. (*Staff-tree Family.*)

CELASTRUS, L. Staff-tree. Shrubby Bitter Sweet.

C. scandens, L. (Wax work. Climbing or False Bittersweet.)

Med. prop.: Bark of Root — Alterative, diuretic, hepatic, narcotic, stimulant, antisyphilitic, diaphoretic emetic. Used in chronic affections of the liver.

EUONYMUS, Tourn. Spindle-tree. Wahoo.

E. atropurpureus, Jacq. (Pegwood. Indian Arrow. Burning Bush. Indian Arrow wood. Wahoo.)

E. Americanus, L. (Strawberry Bush.) Var obvoatus, Torr. and Gr.

Med. prop. : Bark — tonic, laxative, alterative, diuretic, expectorant. Seed — cathartic.

ORDER, SAPINDACEÆ. (*Soapberry Family.*)

STAPHYLEA, L. Bladder-Nut.

S. trifolia, L. (American Bladder-nut.) Nut edible.

ÆSCULUS, L. Horse-chestnut. Buckeye.

Æ HIPPOCASTANUM L. (Common horse-chestnut.) ÆE. glabra, wild. (Fetid or Ohio Buckeye.) ÆE. Pavia, L. (Red B Small B.) Bark, nut and seed used.

Med. prop. : Bark — tonic, febrifuge, astringent, antirheumatic, narcotic, anti-periodic ; seed — poisonous — like strychnine ; narcotic ; in malaria ; nut, sternutatory.

May be given in decoction.

SAPINDUS, L. Soapberry.

S. SAPONARIA, L. (Indian Soapnut.) S. marginatus Willd.

Med prop. : Fruit of S. Saponaria — antirheumatic, detergent ; fish poison. Seed of S. marginatus, saponaceous, expectorant, anti-epileptic.

ACER, Tourn. Maple.

A. rubrum, L. (Red or Swamp Maple. Whistle-wood.) A. nigrum, michx. (Black M.) A saccharinum. (Sugar-tree or Rock M.) A. Pennsylvanicum, L. (Striped M.) Bark used.

Med. prop. : Bitter, astringent, tonic, anthelmintic, diuretic, opthalmic, vulnerary ; leaves of A. Pennsylvanicum anti-emetic. Infusion used.

NEGUNDO, Moench, Ash-leaved Maple.

N. aceroides, Moench. (Box Elder.) Bark used.

Med. prop.: Astringent, vulnerary, saccharine.

ORDER, POLYGALACEÆ. (*Milkwort Family.*)

POLYGALA, Tourn. Milkwort.

P. incarnata, L. (Common milkwort.) *P. fastigiata*, Nutt.

P. Nutallii, Torr. and Gr. (Ground Centaury.) *P. paucifolia*, Willd. (Fringed Polygala. Flowering Wintergreen.)

P. polygama, Walt. (Bitter Polygala.) *P. Sanguinia*, L. *P. Seneca*, L. (Seneca root or Seneca Snake-root.) Var. *latifolia*, Torr. and Gray.

Med. prop.: Root and herb, bitter, tonic, stimulant, sialagogue, expectorant, diuretic, diaphoretic, alterative, emmenagogue, emetic, cathartic, antirheumatic. Dose gr. v. to gr. xx in decoction, syrup or tincture.

ORDER, KRAMERIACEÆ. (*Rhatany Family.*)

KRAMERIA, Loeffl. Rhatany.

K. lanceolata, Torr. (Florida Rhatany. American R.)

Med. prop.: Root, astringent, tonic.

ORDER, FRANKENIACEÆ.

FRANKENIA, L.

F. grandiflora, Cham. & Schlecht, (Yerba Reuma.)

Med. prop.: Astringent, mucilaginous.

Recommended in catarrh, leucorrhœa, gonorrhœa, dysentery.

ORDER, LEGUMINOSÆ. (*Pulse Family.*)

LUPINUS, Tourn. Lupine.

L. perennisis, L. (Wild Lupine.) L. polyphyllus, Lindl
L. densiflorus, Benth. Used as poultice.

Med. prop.: Seed — nutritious; diuretic, anthelmintic, emmenagogue. Used in decoction.

GENISTA, L. Woad-waxen. Whin.

G. TINCTORIA, L. (Dyer's Green-weed.) Dyes yellow.
Med. prop.: Tops and Seed — diuretic. Use decoction.

TRIFOLIUM, L. Clover. Trefoil.

T. ARVENSE, L. (Rabbit-foot. Welch Clover. Stone Clover.) T. PRATENSE, L. (Red C.) T. repens, L. (White C. White Shamrock.)

Med. prop.: Leaves of T. ARVENSE — pectoral, antidysenteric; flowers of T. PRATENSE, and T. repens — detergent, depurative; used in ointment for ulcers and cancers.

The decoction may be used internally.

MELILOTUS, Tourn. Mililot. Sweet Clover.

M. OFFICINALIS, Willd. (Yellow Melilot. Melilot Clover.) M. ALBA, Lam. (White M.) Flower of M. ALBA, herb of M. OFFICINALIS.

Med. prop.: Aromatic, emollient, pectoral, discutient, expectorant, diuretic. Decoction or infusion used.

MEDICAGO, L. Medick.

M. LUPULINA, L. (Dutch Clover. Hop-trefoil. Black Medick. Nonesuch.) Wood is hard. Plant used for forage.

Med. prop.: Plant — soothing or lenitive, laxative.

HOSACKIA, Douglas.

H. Purshiana, Benth. Produces dementia in animals, with stages of intoxication, nervous prostration, etc.; leaving the animal in a condition similar to "blind staggers."

PSORALEA, L. Psoralea.

P. esculenta, Pursh. (Bread-root. *Pomme Blanche*. *Pomme de Prairie*. Prairie Turnip.) *P. melilotoides*, Michx. Root used.

Med. prop.: Aromatic, bitter tonic, nervine; in chronic strumous diarrhoea. *P. esculenta*, edible.

AMORPHIA, L. False Indigo.

A. canescens, Nutt. (Wild Tea. Lead Plant.) Plant. Med. prop.: Alterative.

ROBINIA, L. Locust Tree.

R. Pseudacacia, L. (Common Black Locust. Yellow Locust. False Acacia.)

R. viscosa, Vent. (Clammy L.) *R. hispida*, L. (Bristly L. Rose Acacia.) Bark of the root used.

Med. prop.: Emetic, cathartic, expectorant, tonic, narcotic, perhaps antiperiodic. Symptoms of poisoning, like Belladonna.

TEPHROSIA, Pers. Hoary Pea.

T. Virginiana, Pers. (Devil's Shoestring, Goats-rue Catgut. Hoary Pea.)

Med. prop.: Root—antisymphilitic, vermifuge, stimulant, tonic; in typhoid fever. Use decoction of the root.

ASTRAGALUS, L. Milk-vetch.

A. caryocarpus, Ker. (Ground Plum.) Fruit edible.

Med. prop.: Fruit—astringent.

OXYTROPIS, D. C.

O. Lamberti, Prush. Produces dementia like Hosackia.

GLYCYRRHIZA, Tourn. Liquorice.

G. lepidota, Nutt. (American Liquorice. Wild Liquorice.)

Med. prop.: Root and Extract—Demulcent, pectoral.

LESPEDEZA, Michx. Bush-clover.

L. violacea, Pers. Var. sessiliflora, Gray; Leaves used.

Med. prop.: Alterative, diuretic.

VICIA, Tourn. Vetch. Tare.

V. sativa, L. (Wood—Pea.* Common Vetch or Tare. Wood Vetch.) Seed edible.

Med. prop.: Seed—detergent, astringent.

LATHYRUS, L. Vetchling. Everlasting Pea.

L. maritimus, Bigelow. (Beach Pea.)

Med. prop.: Plant and seed—lenitive; in poultices.

STYLOSANTHES, Swartz.

S. Elatior, Swartz. (Pencil Flower.)

Med. prop.: Herb — Uterine sedative and tonic.

APIOS, Boerhaave. Ground-nut. Wild Bean.

A. tuberosa, Moench. (Indian Potato. Indian Pea.)

Root — lenitive; in poultices: farinaceous, edible.

BAPTISIA, Vent. False Indigo. American Indigo.

B. alba, R. Br. (Prairie Indigo.) B. tinctoria, R. Br. (Wild Indigo.) B. australis, R. Br. (Blue False Indigo) B. leucantha, Torr. & Gray. The plant is used.

Med. prop.: Alterative, antiseptic, emetic, discutient, emmenagogue, cathartic. Root more highly recommended by some. Dose gr. x — gr. xx, in decoction.

CLADRASTIS, Raf. Yellow-wood.

C. tinctoria, Raf. (Kentucky Yellow Wood or Ash. Yellow Ash. Fustic.)

Med. prop.: Bark — cathartic. Wood, yellow.

CERCIS, L. Red-Bud. Judas-tree.

C. Canadensis, L. (Red-Bud.) Fruit edible.

Med. prop.: Flower — antiscorbutic.

CASSIA, L. Senna.

C. Marilandica, L. (Wild Senna. American S.) *C. occidentalis*, L. (Styptic Weed.) *C. nictitans*, L. (Wild Sensitive-plant.) *C. Chamœcrista*, L. (Partridge Pea. Sensitive Pea. Prairie Senna. Sensitive Senna.) The leaves are used.

Med. prop.: Cathartic, vermifuge, antisyphilitic, diuretic, laxative. Dose gr. x — gr. xxx, in infusion.

GYMNOCLADUS, Lam. Kentucky Coffee-tree.

G. Canadensis, Lam. (Kentucky C. American C.)

Med. prop.: Seed and pod — emetic, nervine; leaves — cathartic.

GLEDITSCHIA, L. Honey Locust.

G. triacanthos, L. (Three-Thorned Acacia. Honey L.)

Med. prop.: Sap — saccharine, tonic; pods edible.

ERYTHRINA, L.

E. herbacca, L. (Coral Broom.) Root used.

Med. prop.: Expectorant, sudorific, febrifuge.

PISCIDIA, L. Jamaica Dogwood.

P. Erythrina, L. (Jamaica D.) A fish poison.

Med. prop.: Bark — acrid, narcotic, sedative.

SOPHORA, L.

S. speciosa, Torr. *S. sericea*, Nutt.

Med. prop.: Seed — bitter, astringent; poisonous.

Bean of *S. speciosa* contains an alkaloid which acts like Calabar Bean. Intoxicant, spinal, sedative, soporific.

INDIGOFERA, L. Indigo.

I. Caroliniana, Walt. *I. TINCTORIA*, L. *I. ANIL*, L. (Indigo-Plant.) Plants yielding indigo. Root and leaves.

Med. prop.: Hepatic, nervine, tonic, anti-spasmodic, anti-epileptic, vulnerary; insecticide, poisonous.

PROSOPSIS, L. Mesquit. Screw-Bean.

P. juliflora, DC. (American "Gum Aarbic.") *P. pubescent*, Benth. (Screw-bean.)

Med. prop.: Gum used like Gum Arabic. Fruit edible.

ORDER, ROSACEÆ. (*Rose Family.*)

PRUNUS, Tourn. Plum. Cherry.

P. Americana, Marshal. (Wild Yellow or Red P.) *P. maritima*, Wang. (American Sloe. Beach Plum.) *P. SPINOSA*, L. (Sloe. Black Thorn.) Var. *INSITITIA*, Gray. (Ballace-Plum.) *P. Pennsylvanica*, L. Wild (Red Cherry.) *P. Virginiana*, L. (Rum Cherry. Choke-Cherry.) *P. serotina*, Ehrhart. (Wild Black Cherry.) *P. demissa*, Walpers. (Wild Cherry.) *P. emarginata*, Walpers. Var. *mollis*, Brewer. *P. Caroliniana*, Ait. (Mock Orange. Winter Laurel.) *P. sphaerocarpa*. Swartz. (Poison Laurel. Cherry Laurel.) Fruit of all edible.

Med. prop.: Fruit — acid or bitter, astringent, anti-corbutic, laxative; bark — bitter, tonic, stimulant, sedative, pectoral. Use infusion or decoction.

SPIRÆA, L. Meadow Sweet.

S. Aruncus, L. (Goat's Beard.) *S. lobata*, Murr. (Queen of the Prairie.) *S. opulifolia*, L. (Nine-bark.) *S. tomentosa*, L. (Hard-back. White-Cap. Steeple-Bush. Meadow Sweet.)

Med. prop.: Plant — astringent, tonic, vulnerary, diuretic; in cholera infantum. Dose gr. x — gr. xx, in decoction.

GILLENIA, Moench. Indian Physic.

G. trifoliata, Moench. (Indian Physic. Bowman's-Root. Meadow Sweet.) *G. stipulacea*, Nutt. (Small Flowered Indian P. Indian Physic. American Ipecac. Western Dropwort.) Bark of the root used.

Med. prop.: Emetic, cathartic, sudorific, tonic, expectorant, diaphoretic, hepatic. Dose gr. x-grs. xxx, in powder.

POTERIUM, L. Burnet.

P. Canadense, Gray. (Canadian Burnet.) *P. officinalis*, Benth & Hook. (California Burnet.)

Med. prop.: Plant — astringent, tonic; in hemorrhage.

ALCHEMILLA, Tourn. Lady's Mantle.

A. arvensis, L., Scopoli. (Parsley-Piert.) *A. alpina*, L. (Lady's Mantle.)

Med. prop.: Plant — astringent; used in hemorrhage.

AGRIMONIA, Tourn. Agrimony.

A. Eupatoria, L. (Common Agrimony.) *A. parviflora*, Ait. (Small flowered A.)

Med. prop.: Plant — astringent, stomachic.

GEUM, L. Avens.

G. Virginianum, L. (Throat-root. White Avens. Chocolate-root. Cure-all.) *G. strictum*, Ait. (Upright Avens. Herb-Bennet.) *G. vernum*, Torr. & Gray. (Early Water Avens.)

G. rivale, L. (Water, or Purple A. Indian Chocolate-root.)

Med. prop.: Root — astringent, styptic, tonic, febrifuge, sedative, stomachic; in leucorrhoea. Dose 20 to 60 gr. in decoction.

POTENTILLA, L. Cinke-foil. Five-finger.

P. Norvegica, L. (Norway Cinque-foil.) *P. Canadensis*, L. (Common C. or Five-finger.) *P. argentea*, L. (Silvery C.) *P. Anserina*, L. (Silver-weed. Wild Tansy.) *P. palustris*, Scop. (Marsh Five-finger.) Leaves and plant used.

Med. prop.: Astringent, tonic; in night sweats and summer complaint. In infusion, decoction or syrup.

COWANIA, Don. Cliff Rose.

C. Mexicana, Don. Plant is used.

Med. prop.: Astringent, styptic.

FRAGARIA, Tourn. Strawberry.

F. Virginiana, Ehrhart. (Mountain Strawberry. Wild Strawberry.) Var. *Illinoensis*, Gray. *F. vesca*, L. (Common S. Wood Strawberry.) *F. INDICA*, L. (Indian S.) *F. Californica*, Cham & Schlecht.

Med. prop.: Leaves — astringent, diuretic, tonic; fruit — acid, antiscorbutic, refrigerant, diuretic; edible. Strawberry leaves may be used in decoction.

RUBUS, Tourn. Bramble.

R. odoratus, L. (Purple-flowering Raspberry.) *R. Chamæmorus*, L. (Cloud-berry. Knot-berry.) *R. Strigosus*, Michx. (Wild Red R.) *R. occidentalis*, L. (Black R. Thimble-berry.) *R. villosus*, Ait. (Common or high Blackberry.) *R. Canadensis*, L. (Low B. Dewberry.) *R. trivialis*, Michx. (Low Bush B.) Edible.

Med. prop.: Fruit — antiscorbutic, febrifuge, refrigerant, diuretic, laxative; plant and flowers — diuretic; leaves — astringent, antiemetic, purgative; bark of root — astringent; in dysentery. Decoction of bark, leaves and flowers may be used.

ROSA, Tourn. Rose.

R. blanda, Ait. (Early Wild Rose.)

Med. prop. : Flower — astringent, tonic; ophthalmic.

CRATAEGUS, L. (Hawthorn. White Thorn.)

C. PYRACANTHA, Pers. (Evergreen Thorn.) C. OXYCANTHA, L. (English Hawthorn.) C. coccinea, L. (Scarlet-fruited Thorn.) C. Tomentosa, L. (Black or Pear Thorn.) Var. punctata (Red Haw.) C. Crusgalli, (Cockspur thorn.) Fruit edible.

Med. prop. : Fruit — astringent, tonic; Bark and leaves — tonic, expectorant. Use infusion or decoction of bark and leaves.

PYRUS, L. Pear. Apple.

P. AUCUPARIA, Gaertn. (European Mountain Ash.) P. Americana, DC. (American Mountain Ash, or Round-tree.) P. coronaria, L. (Crab-tree. American Crab Apple.) P. arbutifolia, L. (Chocke-berry.) P. coronaria cultivated for its fruit.

Med. prop. : Fruit — acid, astringent, antiscorbutic; first two, bark — astringent, tonic, detergent, febrifuge. P. rivularis of the Pacific region is used by the Indians for food.

AMELANCHIER, Medic. June-berry.

A. Canadensis, Torr. & Gr. (Shad-bush. Service-berry.) A. alnifolia, Nutt. Fruit edible.

Med. prop. : Antiscorbutic.

ORDER, CALYCANTHACEÆ. (*Calycanthus Family.*)

CALYCANTHUS, L. Carolina Allspice. Sweet-scented Shrub.

C. Floridus, L. (Florida Allspice.) Fragrant.

Med. prop. : Flower — aromatic; root-emetic; bark — aromatic, stimulant.

ORDER, SAXIFRAGACEÆ. (*Saxifrage Family.*)

RIBES, L. Currant. Gooseberry.

R. floridum, L. (Wild Black Currant.) R. rubrum, L. (Red Currant. Wineberries.) R. hirtellum, Michx. (Smooth Gooseberry.) R. rotundifolium, Michx. Gooseberry.)

Med. prop.: Fruit edible; diuretic, acid, refrigerant, febrifuge, diaphoretic, antiscorbutic; bark — lithontryptic; root — diuretic; leaves — diuretic (?).

HYDRANGEA, Gronov. Hydrangea.

H. arborescens, L. (Wild Hydrangea. Seven-Barks.)

Med. prop.: Root—diuretic, lithontryptic; leaves — tonic, sialagogue, diuretic, cathartic. Use decoction.

PHILADELPHUS, L. Mock Orange or Syringa.

P. coronarius, L. (Common Mock O. or S.)

Med. prop.: Leaves — detergent; in poultice.

PARNASSIA, Tourn.

P. Caroliniana, Michx. (Grass of Parnassus.)

Med. prop.: Juice — ophthalmic; seed — diuretic, aperient.

SAXIFRAGA, L. Saxifrage.

S. Virginiensis, Michx. (Early Saxifrage.)

Med. prop.: Plant and flower — diuretic.

HEUCHERA, L. Alum-root.

H. Americana, L. (Ground Maple. Common Alum-root. American Sanicle.) H. villosa, Michx. H. hispida, Pursh. H. pubescens, Pursh.

Med. prop.: Root — astringent; in quinsy.

MITELLA, Tourn. Mitre-wort. Bishop's-Cap.

M. diphylla, L. (Currant-leaf.) *M. nuda*, L.

Med. prop.: Leaves — diuretic, astringent.

TIARELLA, L. False Mitre-wort.

T. cordiflora, L. (Coolwort. False Mitrewort.)

Med. prop.: Herb — diuretic; used in strangury.

ORDER, CRASSULACEÆ. (*Orpine Family.*)

SEDUM, Tourn. Stone-crop. Orpine.

S. acre, L. (Wall Pepper. Mossy Stone-crop.) *S.*

TELEPHIUM, L. (Garden Orpine. Live-for-ever.) *S. telephiodes*, Michx.

Med. prop.: Plant — acrid, emetic, cathartic, vesicant, diuretic, astringent, refrigerant, vulnerary.

ORDER, HAMAMELACEÆ. (*Witch-Hazel Family.*)

HAMAMELIS, L. Witch-Hazel.

H. Virginica, L. (Spotted Alder. Winter-Bloom. Tobacco-wood.) Decoction may be used.

Med. prop.: Bark and leaves — astringent, tonic, sedative, vulnerary; uterine sedative; in hæmoptysis, ophthalmia, hæmetemesis, etc.

FOTHERGILLA, L. Fothergilla.

F. alnifolia, L. (Witch Alder) Bark and leaves used.

Med. prop.: Astringent, tonic.

LIQUIDAMBAR, L. Sweet-Gum Tree.

L. Styraciflua, L. (Sweet-Gum. Opossum tree. Bilsted.)

Med. prop.: Bark — nervine; flower — aromatic; gum in ointments.

ORDER, RHIZOPHORACEÆ. (*Mangrove Family.*)

RHIZOPHORA, L. Mangrove.

R. Mangle, L. (Mangrove. Root-bearer.)

Med. prop.: Fruit and bark — astringent; leaves — detergent, vulnerary; used in poultice, for ulcers.

ORDER, CLUSIACEÆ. (*Balsam Tree Family.*)

CANELLA, P. Brown. Canella.

C. alba, Swartz. (Wild or White Cinnamon. White Canella.) Bark used.

Med. prop.: Aromatic, stimulant, tonic, cordial, antiscorbutic.

ORDER, COMBRETACEÆ. (*Combretum Family.*)

TERMINALIA, L.

T. Catappa, L. (Florida Terminalia.) Bark used.

Med. prop.: Astringent, alterative, emetic, cathartic, cholagogue, emmenagogue.

ORDER, ONAGRACEÆ. (*Evening Primrose Family.*)

CIRCÆA, Tourn. Enchanter's Nightshade.

C. Lutitiana, L. The plant is used, locally; as poultice.

Med. prop.: Resolvent, vulnerary.

EPILOBIUM, L. Willow-herb.

E. angustifolium, L. (Great Willow-herb. Wicup.) E. HIRSUTUM, L. (Codlins and Cream.) E. palustre, L. (Indian Wicopy.) Var. lineare, Gray. (Marsh Epilobium.) E. coloratum, Muhl.

Med. : prop Leaves and root. — astringent, styptic, tonic, demulcent, emollient, detergent, antispasmodic; used in female complaints in decoction, infusion; or poultice.

LUDWIGIA L. False Loosestrife.

L. alternifolia, L. (Seed-box.) L. palustris, Ell. (Water Purslane. Pthisic-Weed.)

Med. prop. : Plant—pectoral; used in asthma.

ÆNOTHERA, L. Evening Primrose.

Æ. biennis, L. (Common Evening Primrose. Scabish.)
Æ. glauca, Michx. (Sundrops.) Plant used.

Med. prop. : Mucilaginous, acrid, exanthematous, detergent; in tetter, chicken-pox, measles, etc.

ORDER, LYTHRACEÆ. (*Loosestrife Family.*)

LYTHRUM, L. Loosestrife.

L. Hyssopifolia, L. (Hyssop-leaved L.) L. alatum, Pursh. (Loosestrife. Milk Willow.) L. Salicaria, L. (Spiked L.) Willow-wort. Purple Willow-herb. Loosestrife. Willow Sage. Rainbow-weed.)

Med. prop. : Herb—astringent, mucilaginous, antisyphilitic, demulcent; in female complaints. Use decoction.

NESAEAE, Commerson, Juss. Swamp Loosestrife.

N. verticillata, H. B. K. (Stink-weed. Swamp Willow-herb.) Med. prop. : Herb—mucilaginous, demulcent, astringent; abortive to cows.

CUPHEA, Jacq. Cuphea.

C. viscosissima, Jacq. (Clammy Cuphea. Waxbush.) Plant viscid.

ORDER, DATISCACEÆ.

DATISCA, L. (False Hemp.)

D. glomerata, Benth. & Hook. (Durango-Root.)

Med. prop.: Plant—cathartic, laxative.

ORDER, CACTACEÆ (*Cactus Family.*)

OPUNTIA, Tourn. Prickly Pear. Indian Fig.

O. vulgaris, Mill. O. FICUS-INDICA, Mill.

Med. prop.: Fruit—saccharine; diuretic, refrigerant; leaves—refrigerant; juice colors red.

CEREUS, Haw.

C. giganteus, Engelm. Fruit—a food for Indians.

ORDER, PASSIFLORACEÆ. (*Passion Flower Family.*)

CARICA, L. Custard Apple.

C. Papaya, L. (Papaw. Custard Apple.) In South Florida.

Med. prop.: Juice—vermifuge; fruit edible.

ORDER, CUCURBITACEÆ. (*Gourd Family.*)

CURCURBITA, L. Melon.

C. perennis, Gray. The pulp of the green fruit is used in washing to remove stains from clothing.

Med. prop.: Root, macerated—astrigent; used for piles. The seeds eaten by Indians.

SICYOS, L. One-seeded Star Cucumber.

S. angulatus, L. (Single-seeded Cucumber.)

Med. prop.: Seed diuretic, purgative; in dropsy.

MELOTHRIA, L. Melothria.

M. pendula, L. (Creeping Cucumber.)

Med. prop.: Fruit — diuretic, vermifuge; pickled.

MEGARHIZA, Torr. (Big-Root.)

M. Californica, Torr. (Man-root.)

Med. prop.: Root — actively cathartic.

ORDER, FICOIDEÆ.

MESEMBRYANTHEMUM, L. Fig-Marigold.

M. crystallinum, L. (Ice Plant.) *M. æquilaterale*, Ha worth. Fruit of latter edible and pleasant.

Med. prop.: Plant — diuretic; in dysentery.

ORDER, UMBELLIFEREÆ. (*Parsley Family.*)

HYDROCOTYLE, Tourn. Water Pennywort.

H. repanda, Pers. *H. umbellata*, L. (Water Navelwort.)

Med. prop.: Plant — aromatic, narcotic, diuretic, diaphoretic, emetic; aliment; used in form of decoction.

SANICULA, Tourn. Sanicle Black Snakeroot.

S. Canadensis, L. (American Sanicle.) *S. Marilandica*, L. (Black S. Snakeroot. Root used.)

Med. prop.: Nervine, anodyne, antiperiodic, astringent, febrifuge, exanthematous; in chorea. Use decoction. May be given in substance—Dose dr. ss, thrice daily.

ERYNGIUM, Tourn. Eryngo.

E. yuccæfolium, Michx. (Rattle snake Flag, or Master, Water Eryngo, Button or Corn Snake root.) *E. Virgatum*-Lam. (Southern Button-Snakeroot.)

Med. prop.: Root—Diuretic, sudorific, aromatic, expectorant.

DAUCUS, Tourn. Carrot.

D. CAROTA, L. (Garden Carrot. Beesnest Plant.) *D. pusillus*, Michx.

Med. prop.: Root and seed—Stimulant, diuretic, carminative, in strangury of blisters. Root used in poultices; *D. pusillus* — in rattlesnake poisoning.

HERACLEUM, L. Cow-Parsnip.

H. lanatum, Michx. (Youthwort. Cow P. Masterwort.)

Med. prop.: Root and seed-stimulant, antispasmodic, carminative, narcotic.

PASTINACA, Tourn. Parsnip.

P. SATIVA, L. (Common Parsnip.) Root edible.

Med. prop.: Seed and tops—diuretic.

ARCHANGELICA, Hoffm. Archangelica.

A. hersuata, Torr. & Gr. (Belly-ache-root.) *A. atropurpurea*, Hoffm. (Archangel. American Angelica. Great Angelica.)

Med. prop.: Root and seed—carminative, stimulant, emmenagogue, aromatic, tonic. Dose gr. xx—dr. j, in infusion.

CONIOSELINUM, Fischer. Hemlock Parsley.

C. Canadense, Torr. & Gray (Marsh Hemlock or Parsley. Milk Parsley.)

Med. prop.: Plant—antidysenteric.

ÆTHUSA, L. Fool's Parsley.

Æ. CYNAPINUM, L. (Small-leaved Hemlock. Dog poison.)

Med. prop.: Leaves—nauseant, irritant; poisonous.

LIGUSTICUM, L. Lovage.

L. actæifolium; Michx. (Nondo. American Lovage. Angelico.)

Med. prop.: Root-aromatic, carminative, stimulant, stomachic. Used for dyspepsia.

THASPIUM, Nutt. Meadow Parsnip.

T. barbinode, Nutt. (Meadow P.) **T. aureum, Nutt.** **T. trifoliatum, Gray.** **T. atropurpureum, Torr. & Gray.** (Round Heart.) **T. apterum, Gray.** Plant used.

Med. prop.: Diuretic, diaphoretic, anti-syphilitic, vulnerary.

BUPLERUM, Tourn. Thorough-wax.

B. rotundifolium, L. (Hare's-ear.) Herb and seed.

Med. prop.: Aromatic: used in rupture.

DISCLOPEURA, DC. Mock Bishop-weed.

D. capillacea, DC. (American Bishop-weed.) Seed used.

Med. prop.: Aromatic, carminative, pungent, diuretic, tonic.

CICUTA, L. Water Hemlock.

C. maculata, L. (Spotted or American Hemlock. Spotted Cowbane. Musquash-root. Beaver poison. American Water H.)

Med. prop.: Plant—acrid, narcotic, emetic, resolvent, anodyne; poisonous.

SIUM, L. Water Parsnip.

S. lineare, Michx. **S. LATIFOLIUM, L.** (Wild Parsnip.) **augustifolium, L.** (Creeping Water Parsnip.) Plant Used.

Med. prop. : Anti-scorbutic, diuretic, stimulant, lithon-tryptic ; poison.

CHÆROHYYLLUM, L. Chervil.

C. SATIVUM, Lam. (Garden Chervil.)

Med. prop. : Herb — aperient, diuretic, aromatic.

HELOSCIADIUM, Koch.

H. nodiflorum, Koch. The plant is used.

Med. prop. : Stimulant, diuretic, lithontryptic.

OSMORRHIZA, Raf. Sweet Cicily.

O. longistylis, DC. (Smoother Sweet Cicily.) Sweet Chervil.) O. brevistylis, DC. (Hairy Sweet Cicily.) Root used.

Med. prop. : Carminative, expectorant, aromatic, demulcent, stomachic.

CONIUM, L. Poison Hemlock.

C. MACULATUM, L. (Spotted Parsley. Poison Hemlock. Wild Hemlock.)

Med. prop. : Leaves and seed — narcotic, anodyne, sedative, antispasmodic, diuretic, deobstruent, poisonous.

APIUM, L. Celery.

A. GRAVESLENS, L. (Smallage, Celery.) A. PETROSELIUM, L. (Garden Parsley.)

Med. prop. : Root and seed — nervine, diuretic, aperient, nephritic, acid ; poisonous ; in nephritis, amenorrhoea, dysmenorrhoea, Juice of A. petrosilium — antiperiodic.

CARUM, L. Caraway.

C. Gairdneri, Benth & Hook. C. Kelloggii, Gray. Eaten by the Indians of the Pacific Slope.

Med. prop. : Seed like Caraway Seed — carminative, aromatic, stomachic.

BERULA, Koch.

B. angustifolium, Koch. The plant is used.

Med. prop.: Stimulant, diuretic, lithontryptic.

OENANTHE, L.

OE. Californica, Watson. *OE. sarmentosa*, Nutt. Eaten by the Indians like celery.

Med. prop.: Like celery.

MUSENIUM, Nutt.

M. tennifolium, Nutt. Fruit-aromatic.

CYMPTERUS, Raf.

C. terebinthinus, Torr. & Gray, *C. Fendleri*, Gray.

Med. prop.: Root: stomachic, tonic, carminative. Root eaten by Indians. Probably aromatic and stomachic (?)

PEUCEDANUM, L.

P. leiocarpum, Nutt. *P. macrocarpum*, Nutt. *P. Neva dense*, Watson. These and others used by Indians for food.

Med. prop.: not known.

ORDER, ARALIACEÆ. (*Ginseng Family.*)

ARALIA, Tourn. Ginseng. Wild Sarsaparilla.

A. spinosa, L. (Shoreweed. Angelica-tree. Shot-bush. Hercules-club.) *A. racemosa*, L. (Spignet. Spikenard. Indian-Root. American S.) *A. hispida*, Michx. (Bristly Sarsaparilla. Wild Elder.) *A. nudicaulis*, L. (Small Spikenard. Wild Sarsaparilla. Wild Liquorice. American S.) *A. quinquefolia*, Gray. (Ginseng.) *A. trifolia*, Gray. (Dwarf Ginseng. Ground-Nut.)

Med. prop.: Leaves — soporific; root — aromatic, altera-

tive. expectorant, depurative, stimulant, diaphoretic, balsamic; bark—aromatic, stimulant, sialogogue, sudorific, emetic, cathartic; berries—antirheumatic: the tincture in toothache. Use decoction; of the berries, use tincture or wine.

ORDER, CORNACEÆ. (*Dogwood Family.*)

CORNUS, Nourn. Cornel. Dogwood.

C. Canadensis, L. (Dwarf Cornel. Bunch-berry.) C. florida, L. (Box-wood. Flowering Dogwood. Indian Arrow-wood. Virginia Dogwood.) C. circinata, L'Her. (Green Osier. Round-leaved Cornel or Dogwood.) C. serica, L. (Rose Willow, Silky Cornel. Red Osier. Kinnikinnik. Swamp Dogwood.) C. alternifolia, L. (Alternate-leaved Cornel.) C. paniculata, L'Her. (Panicked Cornel.)

Med. prop.: Bark—astringent, tonic, bitter, antiperiodic, diaphoretic, febrifuge; flower—uterine tonic, Used in decoction, infusion or tincture. Dose dr. $\frac{1}{8}$ -drs. j.

NYSSA, L. Tupelo. Pepperidge. Sour-Gum-tree.

N. multiflora, Wang. (Tupelo. Black-gum. Sour-Gum-Tree. Pepperidge.) N. capitala, Walt. (Ogeechee Lime.) Wood fine-cross-grained.

Med. prop.: Fruit—acid, bitter, antiscorbutic.

GARRYA, Dougl.

G. Fremontii, Torr. (California Fever-bush.)

Med. prop.: Tonic, antiperiodic, sedative.

ORDER, CAPRIFOLIACE (*Honeysuckle Family.*)

SAMBUCUS, Tourn. Elder.

S. Canadensis, L. (Common Elder.) S. racemosa, L. (Red-berried Elder.) Var. arborescens, Torr & Gray. (Mountain E.) S. glauca, Nutt.

Med. prop.: Bark—cathartic, emetic; flowers—diuretic, diaphoretic, exanthemathous. Use infusion or decoction. Berries—diuretic.

VIBURNUM, L. Arrow-wood. Laurestinus.

V. lantanoides, Michx. (Hobblebush. American Way-faring-tree.) *V. Opulus*, L. Squaw-bush. (High Cranberry. Cramp Bark.) *V. acerifolium*, L. (Arrow wood. Dockmackie.) *V. dentatum*, L. (Arrow-wood. Mealy-tree.) *V. cassinoides*, L. (Withe-rod.) *V. Lentago*, L. (Nanny-bush. Sweet Viburnum. Sheep-berry.) *V. prunifolium*, L. (Black Haw. Sloe.) *V. obovatum*, Walt.

Med. prop.: Bark—diuretic, detergent, antispasmodic, antiperiodic, tonic, alterative, nervine, astringent; leaves—as tea; bark of root to prevent abortion, and as uterine sedative and tonic.

TRIOSTEUM, L. Feverwort. Horse-Gentian.

T. perfoliatum, L. (Fever-root. Wild Ipecac. Wild Coffee.) *T. angustifolium*, L.

Med. prop.: Root—emetic, diaphoretic, tonic, laxative, febrifuge.

LINNÆA, Gronov. Twin-flower.

L. borealis, Gronov. The plant is used.

Med. prop.: Bitter, sub-astringent, antirheumatic.

SYMPHORICARPOS, Dill. Snow-berry. Indian Currant.

S. vulgaris, Michx. (Corral-berry. Indian Currant.) *S. occidentalis*, Hook. (Wolf-berry.) *S. racemosus*, Michx. (Snow-berry.) Root used.

Med. prop.: Astringent, tonic, antiperiodic, antispylitic.

LONICERA, L. Honeysuckle. Woodbine.

L. cærulea, L. (Blue Honeysuckle. Mountain Fly-H.) *L. sempervirens*, L. (Trumpet H.) *L. hirsuta*, Eaton. (Hairy H. Rough Woodbine.)

Med. prop.: Leaves — antiasthmatic; plant and flower — bitter, astringent, mucilaginous.

DIERVILLA, Tourn. Bush-Honeysuckle.

D. trifida, Moench. Root, leaves and twigs used.

Med. prop.: Diuretic, astringent, alterative.

ORDER, RUBIACEÆ. (*Madder Family.*)

EXOSTEMA, Rich.

E. Caribæum, Roem. & Schult. (Seaside Beech.)

Med. prop.: Bark — febrifuge, emetic, bitter, aromatic.

PINCKEYA, Michx. Georgia-Bark.

P. pubens, Michx. (Fever-tree. Florida or Georgia-Bark.)

Med. prop.: Bark — tonic, antiperiodic, astringent, febrifuge.

CEPHALANTHUS, L. Button-bush.

C. occidentalis, L. (White Ball. Little Snowball, Buttonwood-shrub.) Bark used.

Med. prop.: Tonic, aperient, diuretic, febrifuge.

MORINDA, Vaill.

M. Roioe, L. (Yaw-weed.) Used in a disease called yaws or framboesia; called by the Indians, *pian*. The herb is used.

CHIOCOCO, P. Brown. Snowberry.

C. racemosa, L. The bark used.

Med. prop.: Cathartic, emetic, diuretic, tonic, diaphoretic.

MITCHELLA, L. Partridge-berry.

M. repens, L. (Squaw-vine. Winter Clover. Partridge-berry.)

Med. prop.: Plant — diuretic, parturient, astringent, tonic, alterative; used in uterine disorders, and in parturition.

RICHARDIA, Houst., L.

R. SCABRA, L. (White Ipecac. Undulated Ipecac.) Root used.

Med. prop.: Emetic, sudorific; as ipecac.

GALIUM, L. Bedstraw. Cleavers.

G. VERUM, L. (Yellow Bedstraw or Cleavers.) G. MOL-LUGO, L. (Whip-tongue, Wild Madder.) G. Aparine, L. (Cleavers. Catch-weed Goosegrass Gravel-grass.) G. circæzans, Michx. (Wild Liquorice.) G. lanceolatum, Torr. G. trifidum, L. (Small Cleavers.) G. asprellum, Michx. (Pointed Cleavers.) The herb is used.

Med. prop.; Diuretic, aperient, refrigerant, demulcent, nervine, expectorant, diaphoretic; used in epilepsy, lepra, and congestion of spleen.

ASPERULA, L.

A. ODORATA, L. (European Woodruff or Woodroof.) Plant used.

Med. prop.: Diuretic, deobstruent, tonic, vulnerary.

ORDER, VALERIANACEÆ. (*Valerian Family.*)

VALERIANA, Tourn. Valerian.

V. sylvatica, Banks. (American Wild Valerian.) V. pauciflora, Michx. (Vermont V. Great Wild V.) All-heal.

Med. prop.: Root—aromatic, stimulant, anodyne, tonic, nervine, antispasmodic, V. edulis, Nutt. (Oregon Tobacco.) Is used as an article of food among the Indians.

VALERIANELLA, Tourn. Corn Salad.

V. olitoria, Poll. (Lamb's Lettuce.) V. radiata, Dufr.
Leaves used as salad.

ORDER, DIPSACEÆ (*Teasel Family.*)

DIPSACUS, Tourn. Teasel.

D. FULLORUM, L. (Fuller's Teasel.) D. SYLVESTRIS,
Mill. (Wood-broom. Wild Teasel.)

Med. prop.: Root — diuretic, sordid, stomachic.

D. FULLORUM used by fullers to raise a nap on woolen
cloth.

ORDER, COMPOSITÆ. (*Composite Family.*)

VERNONIA, Schreb. Iron-weed.

V. Noveboracensis, Willd. V. fasciculata, Michx. V.
angustifolia, Michx. The root is used.

Med. prop.: Bitter, tonic, deobstruent, alterative, febrile,
depurative; used in female complaints.

ELEPHANTOPUS, Vaill., L. Elephants-foot.

E. tomentosus, L. (Elephants-foot.)

Med. prop.: Herb—Diaphoretic, expectorant, emetic.

EUPATORIUM, Tourn. Thoroughwort. Boneset.

E. purpureum, L. (Queen of the Meadow. Kidney-
root. Joe-Pye Weed. Purple Boneset. Trumpet-Weed.
Gravel-root.) Var. maculatum, Darl. (Spotted Boneset.)
E. fœniculaceum, Willd. (Dog-fennel.) E. lencalopris,

Torr. & Gray. *E. hyssopifolium*, L. *E. teucrifolium*, Willd. (Wild Horehound. Rough Boneset.) *E. rotundifolium*, L. *E. sessilifolium*, L. (Upland Boneset.) *E. perfoliatum*, L. (Sweating-plant. Ague-weed. Thoroughwort. Boneset. Vegetable Antimony.) *E. incarnatum*, Walt. *E. ageratoides*, L. (Poolroot. White Snake-root. White Sanicle.) *E. aromaticum*, L. (White snake-root. Poolwort.) *E. coelestinum*, L. (Mist-flower.) *E. pubescens*, Muhl.

Med. prop.: Root and herb---aromatic, tonic, diuretic, diaphoretic, antispasmodic, expectorant, aperient, emetic, antiperiodic, febrifuge, stimulant, astringent.

E. incarnatum smoked with tobacco for flavor. *E. hyssopifolium*, *E. Cuculepsis* — herb — antivenomous. May be used in decoction or infusion. Excellent in the spring as bitters for “biliousness.”

KUHNIA, L.

K. ewpatorioides, L. (False Boneset.)

Med. prop.: Plant — bitter, tonic, diaphoretic. The varieties *corymbulosa* and *gacilis*, Torr. & Gray, and *K. rosmarinifolia*, Vent., probably have similar properties.

LIATRIS, Schreb. Blazing-Star. Button Snakeroot.

L. squarrosa, Willd. (Blazing Star.) *L. cylindracea*, Michx. *L. scariosa*, Willd. (Rattle-snake's Master.) *L. spicata*, Willd. (Backache-root. Prairie Pine. Throatwort. Button Snakeroot.) *L. graminifolia*, Pursh. Root used — in Bright's Disease.

Med. prop.: Diuretic, stimulant, diaphoretic, tonic, alterative, emmenagogue, antisyphilitic.

TRILISIA, Cass. Carolina Vanilla.

T. odoratissima, Cass. (Vanilla-leaf. Vanilla Plant. Hounds-tongue.)

Med. prop.: Leaves — aromatic, tonic, stimulant, diaphoretic; odor like vanilla.

GRINDELIA, Willd. Gum-plant.

G. hirsutula, Hook. & Arn. *G. squarrosa*, Dunal. *G. glutinosa*, Dunal. *G. robusta*, Nutt.

Med. prop.: Demulcent, pectoral, nephritic; in asthma; *G. hirsutula* in Rhus poisoning. Locally in burns, vaginitis, etc.

BIGELOVIA, DC.

B. veneta, Grây. (Damiana.)

Med. prop.: Aphrodisiac.

CHRYSOPTERIS, Nutt. Golden Aster.

C. graminifolia, Nutt. (Silver Aster.)

Med. prop.: Leaves — pectoral.

SOLIDAGO, L. Golden-rod.

S. bicolor, L. *S. macrophylla*, Pursh. *S. Virgaurea*, L. (Golden-rod.) *S. odora*, Ait. (Woundweed. Sweet Golden-rod.) *S. serotina*, Ait. Var. *gigantea*, Gray. *S. rigida*, L. (Hard-leaved Golden-rod.)

Med. prop.: Plant — vulnerary, diuretic, astringent, styptic in hemorrhage; leaves and oil — carminative stimulant, diuretic, diaphoretic, astringent.

BELLIS, Tourn. Daisy.

B. PERENNIS, L. (European Daisy.)

Med. prop.: Root — antiscorbutic, leaves — vulnerary.

ASTER, Tourn. Starwort. Aster.

A. cordifolius, L. (Heart-leaved A.) *A. Tradescanti*, L. (Michaelmas Daisy.) *A. puniceus*, L. (Squaw-weed. Cocash.) *A. undulatus*, L. (Small Fleabane.) *A. juncus*, Ait. (Sampson Snake-root. Rheumatic-weed.)

Med. prop.: Root — anti-spasmodic, alterative, anti-rheumatic, aromatic, tonic, nervine, diaphoretic; plant of *A. Tradescanti* — aromatic, diaphoretic; in rheumatism.

ERIGERON, L. Fleabane.

E. bellidifolius, Muhl. (Robert's Plantain.) *E. Philadelphicus*, L. (Sweet Scabious. Philadelphia Fleabane.) *E. strigosus*, Muhl. (Daisy Fleabane. Scabious.) *E. Candensis*, L. (Canada Fleabane.)

Med. prop.: Plant — astringent, tonic, diuretic, styptic; flower of *E. Philadelphicus*, also diaphoretic, and emmenagogue.

SERICOCARPUS, Nees.

S. tortifolius, Nees. (Silk-seed Aster.) Plant — diuretic.

BACCHARIS, L.

B. halimifolia, L. (Groundsel-tree.)

Med. prop.: Bark — demulcent, pectoral, aromatic.

PLUCHEA, Cass. Marsh Fleabane.

P. bifrons, DC. *P. Camphorata*, DC. (Plowmans-wort.)

Med. prop.: Plant — stimulant, nervine, antispasmodic, antihysteria, pectoral; for "Nervousness."

PTEROCAULON, Ell. Black-root.

P. pycnostachyum, Ell. (Indian Black-root.)

Med. prop.: Root — alterative, narcotic.

FILAGO, Tourn.

F. Germanica, L. (Cotton-Rose. *Herba Impia*.)

Med. prop.: Plant — astringent, vulnerary, discutient.

ANTENNARIA, Gaertn. R. Br.

A. plantaginifolia, Hook. (Mouse-ear.) *A. dioica*, Gaertn. (Life Everlasting.)

Med. prop.: Plant and flower — of *A. dioica*, astringent, styptic; leaves and flower of *A. plantaginifolia* — diuretic, pectoral.

ANAPHALIS, DC. Everlasting.

A. margaritacea, Benth. & Hook. (Cotton-weed. Pearl-flowered Life Everlasting.)

Med. prop.: Flower — anodyne, pectoral, astringent, vermifuge.

GNAPHALIUM, L. Cudweed. Everlasting.

G. polycephalum, Michx. (White or Sweet Balsam. Balsam-weed. Sweet-scented Everlasting.) *G. uliginosum*, L. (Cudweed.) *G. sylvaticum*, L. (Golden Motherwort.)

Med. prop.: Plant — anodyne, diuretic, diaphoretic, astringent, pectoral, febrifuge, stomachic; flower — astringent, diuretic; juice — anaphrodisiac.

INULA, L.

I. Helenium, L. (Elecampane. Scabwort.) Root used.

Med. prop.: Expectorant, emollient, tonic, diuretic, diaphoretic, stimulant, emmenagogue. Decoction used for girls suffering from amenorrhœa due to cold. Dose dr. 1-3—dr. j.

POLYMNIA, L.

P. Canadensis, L. (Leaf Cup.) *P. Uvedalia*, L. (Bearsfoot.)

Med. prop.: Plant — vulnerary, tonic, antispasmodic.

SILPHIUM, L. Rosin-weed.

S. laciniatum, L. (Compass-plant or weed.) *S. perfoliatum*, L. (Cup-plant. Indian C. Rosin-weed.) *S. terebinthinaceum*, L. (Prairie Dock.)

Med. prop.: Plant — emetic, febrifuge; for “heaves,” in horses; root — diaphoretic, diuretic, stimulant, pectoral; gum — stimulant, antispasmodic, pectoral.

PARTHENIUM, L.

P. Hysterophorus, L. (Bastard Fever-fev.) *P. integrifolium*, L. (Cutting-almond. Nephritic-plant.)

Med. prop.: Root — aromatic, bitter, stimulant, diuretic, tonic, lithontryptic, nephritic; plant — tonic, carminative, emmenagogue, vermifuge; tops — antiperiodic. Give in infusion or decoction; used in nephritis and inflammation of bladder.

AMBROSIA, Tourn. Ragweed.

A. trifida, L. (Tall Ambrosia. Wild Hemp. Great Ragweed.) *A. artemisiaefolia*, L. (American Roman Wormwood. Ragweed. Bitter-weed.)

Med. prop.: Plant — detergent, antiphlogistic, stimulant, astringent, antiseptic, ophthalmic. Given in low forms of fever; typhoid. Use decoction or infusion.

XANTHIUM, Tourn. Cockle-bur. Clot-bur.

X. STRUMARIUM, L. (Sea Burdock. Clot-bur.)

Med. prop.: Root — alterative, diuretic, depurative; seed — diuretic, alterative; leaves — maturative, in poultices; for boils and abscess.

ECHINACEA, Moench.

E. purpurea, Moench. (Purple Cone-flower. Black Sampson).

Med. prop.: Root — antisymphilitic, depurative.

RUDBECKIA, L. Cone-flower.

✓ *R. laciniata*, L. (Thimbleweed.)

Med. prop.: Root — pungent, bitter; plant — diuretic, tonic, balsamic; useful in kidney complaints.

BALSAMORRHIZA, Hook. Balsam-Root.

B. sagittata, Nutt. The young stalks, root and seeds of this and other species of this genus are eaten by the Indians.

B. terebinthacea, Nutt. The root of this and other species is balsamic and resiniferous.

HELIANTHUS, L. Sunflower.

H. annuus, L. (Common Sunflower.) *H. petiolaris*, Nutt. *H. giganteus*, L. (Wild S. "Indian Potato of the Assemboine tribe.") *H. divaricatus*, L. (Rough S.) *H. tuberosus*, L. (Earth Apple. Jerusalem Artichoke.) and Var. *subcanescens*, Gray.

Buds and roots edible.

Med. prop.: Plant and seed — diuretic, expectorant.

VERBESINA, L.

V. Virginica, L. (Crown-beard.)

Med. prop.: Root — diaphoretic, depurative.

WYETHIA, Nutt.

W. helianthoides, Nutt. *W. amplexicaulis*, Nutt. Thickened roots used by the Indians for food.

COREOPSIS, L. Tickseed.

C. tinctoria, Nutt. (Nuttalls-weed.) *C. tripteris*, L.
C. trichosperma, Michx. (Tickseed Sunflower.)

Med. prop.: Leaves and flowers — alterative, expectorant.

BIDENS, Tourn. Bur-Marigold.

B. frondosa, L. (Sticktight. Beggars-tick.) *B. con-nata*, Muhl. (Cuckold. Harvest-lice.) *B. bipinnata*, L. (Spanish Needles.) *B. Beckii*, Torr. (Water Marigold.)

Med. prop.: Plant — herpetic, vulnerary, sialagogue, expectorant, pectoral, emmenagogue. Used in croup, in palpitation of the heart and in female complaints.

MADIA, Molina. Tarweed.

M. sativa, Molina. (Tarweed.) Var. *congesta*, Torr & Gray. The seed yields oil — used like olive oil.

HELENIUM, L. Sneeze-weed. Sneezewort.

H. tenuifolium, Nutt. *H. parviflorum*, Nutt. *H. autumnale*, L. (Yellow Star. False Sunflower. Swamp Sneezewort.) First two deleterious to animals; medical value unknown.

Med. prop.: *H. autumnale* — flower — errhine; herb — tonic, diaphoretic, febrifuge, errhine.

ANTHEMIS, L. Chamomile.

A. COTULA, L. (Mayweed. Wild Chamomile. Dog-fennel. Stinking Chamomile.) *A. ARVENNIS*, L. (Field Chamomile.) *A. NOBILIS*, L. (Garden Chamomile. Roman Chamomile. Whig-plant.) *A. tinctoria*, L.

Med. prop.: Flower — bitter, aromatic, tonic, stimulant, emetic, sudorific; leaves — bitter, antihysterical. Dose dr—dr. j infusion.

ACHILLEA, Vaill. Yarrow.

A. Millefolium, L. (Nose-bleed. Yarrow. Milfoil. Thousand-leaved A.) A. Ptarmica, L. (Sneezewort. German Pellitory.)

Med. prop.: Plant — astringent, alterative, diuretic, tonic, vulnerary; root — acrid; leaves — pungent, sternutatory.

MATRICARIA, Tourn., L.

M. CHAMOMILLA, L. (German Chamomile.) M. CORONATA, Gray. M. discoidea, DC. Flower used.

Med. prop.: Tonic, emmenagogue, stomachic, carminative, nephritic, vermifuge. Use in infusion like Anthesis.

CHRYSANTHEMUM, Tourn., L.

C. BALSAMITÆ L. (Costmary. Mint-Geranium.) C. Leucanthemum, L. (Ox-eye Daisy. Whiteweed. White Daisy.) C. Parthenium, Pers. (Feverfew.) Flower and leaf acid.

Med. prop.: Plant — tonic, emmenagogue, stimulant, carminative, vermifuge.

TANACETUM, Tourn. Tansy.

T. VULGARE, L. (Common Tansy.) T. Huronense, Nutt. T. Camphoratum, Less.

Med. prop.: Aromatic, tonic, emmenagogue, diaphoretic, vulnerary; seed — vermifuge.

ARTEMISIA, Tourn., L. Wormwood. Mugwort. Sage-brush.

A. Canadensis, Michx. (Canada Wormwood.) A. dracunculoides, Pursh. (Taragon.) A. ABSINTHIUM, L. (Wormwood.) A. ABROTANUM, L. (Southernwood.) A. biennis, Willd. A. glomerata, Ledeb. (Barbary Wormseed.) A. Vulgaris, L. (Mugwort. Indian M.) A. Ludoviciniana, Nutt. A. Mexicana, Willd. A. Norvegica, Fries.

A. PROCERA, Wild. *A. Prescottiana*. Bess. *A. frigida*, (Mountain Sage.)

Med. prop.: Plant — bitter, tonic, aromatic, febrifuge, anthelmintic, antiseptic, hepatic, discutient, deobstruent, astringent, stomachic, emmenagogue, anti-epileptic.

TUSSILAGO, Tourn. Coltsfoot.

T. FARFARA, L. (British Tobacco. Common Coltsfoot. Butter-bur.) Plant used.

Med. prop.: Emollient, demulcent, tonic, errhine, expectorant. Excellent for sore or irritable throat.

PETASITES, Tourn. Butter-Bur. Sweet Coltsfoot.

P. VULGARIS, Desf. (Pestilence-weed.)

Med. prop.: Leaves — detergent; flower — diaphoretic; root — vermifuge.

ARNICA, L. Arnica.

A. nudicaulis, Nutt. *A. Chamissonis*, Less.

Med. prop.: Supposed to possess the properties of *A. Montana*: plant — narcotic, stimulant, emmenagogue, diuretic, vulnerary. Used in liniments for sprains. Leaves and flowers may be used as poultice.

SENECIO, Tourn. Groundsel.

S. CINNARIO, DC. (Dusty Miller.) *S. Jacobea*, L. (Staggerwort. Ragwort.) *S. tomentosus*, Michx. (Woolly Ragwort. Ashwort.) *S. aureus*, L. (Life-root Plant. Cough-weed. False Valerian.) Var. *obovatus*, Torr. & Gray. Var. *Balsamitæ*, Torr. & Gray. (Groundsel Balsam.) *S. lobatus*, Pers. (Butter-weed.) *S. VULGARIS*, L. (Common Groundsel.)

Med. prop.: Plant — diuretic, diaphoretic, emmenagogue, febrifuge, extectorant, dessicative, astringent, vulnerary,

detergent, anti-scorbutic; leaves — bitter, nauseant, anti-rheumatic, tonic, astringent, vulnerary.

CACALIA, L. Indian Plantain.

C. suaveolens, L. (Wild Caraway.) *C. reniformis*, Muhl. (Great Indian Plantain.) *C. atriplicifolia*, L. (Pale Indian P.) *C. tuberosa*, Nutt. (Tuberous I.)

Med. prop.: Plant — emollient; like “Mallow”; Bulb of *C. tuberosa* edible.

ERECHTHITES, Raf. Fireweed.

E. hieracifolia, Raf. (Pilewort. Fireweed.) Plant used.

Med. prop.: Emetic, tonic, astringent, alterative; in piles. The infusion or decoction useful in dysentery.

ARCTIUM, L. Burdock.

A. LAPPa, L. (Bardana.) Var. *TOMENTOSUM*, Gray. Var. *MINOR*, Gray.

Med. prop.: Root — alterative, diuretic, depurative, herpetic; seed diuretic, alterative; in prurigo, lepra, lupus, acne, herpes, psoriasis; leaves — maturative.

CARDUUS, Tourn., L. Plumeless Thistle.

C. NUTANS, L. (Musk Thistle.) The herb used.

Med. prop.: Aromatic, bitter, tonic.

CNICUS, Tourn., L. Plumed Thistle.

C. ARVENSIS, Hoffm. (Cursed Thistle. Canada Thistle.) *C. LANCEOLATUS*, Hoffm. (Common Thistle. Bull Thistle.)

Med. prop.: Root — tonic, alterative, hepatic; leaves — anti-phillogistic.

ONOPORDON, Vaill. Cotton Thistle.

O. ACANTHIUM, L. (Cotton (Musk) Thistle.)

Med. prop.: Juice used externally in cancer.

SILYBUM, Vaill. Milk Thistle.

S. MARIANUM, Gaertn. (Mary Thistle.)

Med. prop.: Herb — bitter, tonic; seed — oleaginous.

CENTAUREA, L. Star Thistle, etc.

C. BENEDICTA, L. (Blessed Thistle.) C. CALCITRAPA, L. (Star Thistle.) C. NIGRA, L. (Knapweed. Hard-heads. Horse-knob T.) C. CYANUS, L. (Bluebottle. Blue Centaury.) C. Americana, Nutt. (American Star Thistle.)

Med. prop.: Root — astringent, bitter, tonic, deobstruent, vulnerary; plant — tonic, diaphoretic, bitter, febrifuge, stomachic; flower — cordial, tonic, ophthalmic.

LAMPSANA, Tourn.

L. COMMUNIS, L. (Nipplewort.)

Med. prop.: Plant — bitter lenitive; externally to sore nipples.

KRIGIA, Schreb.

K. Virginica, Willd. (Dwarf Dandelion.)

Med. prop.: Root — stomachic, tonic, diuretic, aperient, depurative, hepatic. Use in decoction like dandelion.

CICHORIUM, Tourn. Succory. Chiccory. Endive.

C. INTYBUS, L. (Chiccory. Wild Chiccory.)

Med. prop.: Root — aperient, deobstruent, bitter.

TRAGOPOGON, Gray., L. Goat's beard. Salsify.

T. PORRIFOLIUS, L. (Jerusalem Star. Salsify. Vege-

table Oysters. Oyster-plant.) *T. PRATENSIS*, L. (Star of Jerusalem. Goat's-beard. Meadow Salsify.)

Med. prop.: Root — Diuretic. Eaten as food.

LEONTODON, L., Juss. Hawkbit.

L. AUTUMNALIS, L. (Fall Dandelion.)

Med. prop.: Plant — laxative, hepatic, diuretic, ophthalmic.

HIERACIUM, Tourn. Hawkweed.

H. AURANTIACUM L. *H. PRAEALTUM*, Vill. *H. MURO-RUM*, L. (French Lungwort.) *H. paniculatum*, L. (Panicked Hawkweed.) *H. venosum*, L. (Rattlesnake-weed. Bloodwort or Striped B.) *H. scabrum*, Michx. (Rough H.) *H. Gronovii*, L. (Hairy H.)

Med. prop.: Plant — tonic, bitter, astringent, mucilaginous.

CREPIS, L.

C. VIRENS, L. (Hawk-beard.) Like *Cichorium Intybus*.

PRENANTHES, Vaill.

P. alba, L. (Canker-weed or root, White Lettuce. Rattlesnake-root.)

P. serpentaria, Pursh. (Lion's-foot. Gall-of-the-Earth.)

Med. prop.: Plant — bitter, anti-venomous; root — bitter, tonic, astringent. Milky juice or decoction internally; steeped leaves externally; successful in snake-bite.

TARAXACUM, Haller. Dandelion.

T. OFFICINALE, Weber. (Lion's-tooth. Priest's Crown. Common Dandelion. Wild Endive.)

Med. prop.: Root — stomachic, tonic, diuretic, aperient, depurative, hepatic. Use decoction.

CHONDRILLA, L.

C. JUNCEA, L. (Succory-Gum.)

Med. prop.: Leaves — diuretic; used in dropsy; gum — narcotic.

LACTUCA, Tourn. Lettuce.

L. Canadensis, L. (Fireweed. Wild Lettuce. Trumpet-weed.) L. SCARIOLOLA, L. (Prickly Lettuce.) L. integrifolia, Bigel. L. hirsuta, Muhl. L. Floridana, Gaertn. L. acuminata, Gray. (Blue Lettuce.) L. SATIVA, L. (Sleepwort. Garden Lettuce.)

Med. prop.: Leaves — anti-venomous, (L. Floridana; L. acuminata); Leaves and Juice — narcotic, sedative, anodyne, hypnotic, diuretic, diaphoretic; leaves of L. SATIVA (Garden Lettuce) eaten.

SONCHUS, Tourn. Sow Thistle.

S. OLERACEUS, L. (Common Sow Thistle.)

Med. prop.: Juice — bitter, diuretic.

ORDER, LOBELIACEÆ. (*Lobelia Family.*)

LOBELIA, L. Lobelia.

L. cardinalis, L. (Cardinal-flower. Red Lobelia.) L. sylvatica, L. (Blue Cardinal or Lobelia. Great Lobelia.) L. spicata, Lam. (Spiked Lobelia.) L. inflata, L. (Asthma-weed. Indian Tobacco. Lobelia.)

Med. prop.: Plant — anthelmintic, anti-spasmodic, nervine, emetic, diaphoretic, expectorant, diuretic, resolvent, anti-syphilitic, cathartic; in bronchitis, croup and pneumonia.

ORDER, CAMPANULACEÆ. (*Campanula Family.*)

CAMPANULA, Tourn. Bell-flower. Harebell.

C. GLOMERATA, L. (Clustered Bell-flower.) C. rotundifolia, L. (Harebell.)

Med. prop.: Plant and flower — emetic, pectoral, expectorant.

ORDER, ERICACEÆ. (*Heath Family.*)

GAYLUSSACIA, HBK. Huckleberry.

G. dumosa, Torr. & Gray. (Dwarf Huckleberry.) G. frondosa, Torr. & Gray. (Blue Tangle. Dangleberry.) G. resinosa, Torr. & Gray. (Black Huckleberry.)

Med. prop.: Same as next genus (*Vaccinium*.)

VACCINIUM, L. Blueberry. Bilberry.

✓ V. arboreum, Marshall. (Farkle-or Sparkle-berry.) V. stamineum, L. (Squawberry. Deerberry. Squaw Huckleberry.) V. Pennsylvanicum, Lam. (Dwarf or Low Blueberry.) V. corymbosum, L. (Common or Swamp-Blueberry.) V. Myrtillus, L. (Whortleberry. Bilberry.) V. Vitis-Idæa, L. (Cowberry. Mountain Cranberry.) V. Oxycoccus, L. (Sour-berry. Small Cranberry. Marshwort.) V. macrocarpon, Ait. (Large American Cranberry.)

Med. prop.: Bark and leaves — astringent, diuretic, lithontryptic, especially leaves of V. Vitis-Idæa; root — diuretic; fruit — astringent, acid, antiscorbutic, refrigerant, diuretic, saccharine; fruit edible; in scurvy.

ARCTOSTAPHYLOS, Adan. Bearberry. Manzanita.

A. alpina, Spreng. (Black Bearberry. Alpine B. A. Uva-ursi, Spreng. (Bearberry.) A. glauca, Lindl.

Med. prop.: Fruit of first edible; leaves — astringent, anti-syphilitic, diuretic, tonic, nephritic, lithontrytic, antilithic.

EPIGÆA, L. Mayflower.

E. repens, L. (Mountain Pink. Trailing Arbutus. Gravel-weed or plant. Ground Laurel. Winter Pink.)

Med. prop.: Leaves — diuretic, astringent.

GAULTHERIA, Kalm., L. Aromatic Wintergreen.

G. procumbens, L. (Mountain Tea. Wintergreen. Spice-berry. Checkerberry. Boxberry.)

Med. prop.: Leaves — aromatic, stimulant, astringent, diuretic, emmenagogue.

ANDROMEDA, L.

A. polifolia, L. *A. nitida*, Bartr. (Fetter-bush. Pipestem.) *A. Mariana*, L. (Stagger-bush. Sorrel-tree. Wicke.) *A. speciosa*, Michx. (Large-flowered Andromeda.)

Med. prop.: Bark and leaves — acid, astringent, refrigerant, febrifuge; leaves of first two acrid, used for itch; leaves of last — errhine; poisonous.

OXYDENDRUM, DC. Sour-wood.

O. arboreum, DC. (Sorrel-tree. Sour-wood.)

Med. prop.: Leaves — Tonic, diuretic, refrigerant; for fever.

CALLUNA, Salisb. Heather. Ling.

C. vulgaris, Salisb. (Heather.) Plant used.

Med. prop.: Diuretic, astringent, sudorific, anti-rheumatic.

KALMIA, L. American Laurel.

K. latifolia, L. (Laurel. Rose Laurel. Broad-leaved L. Calico-bush.) *K. angustifolia*, L. (Sheep Laurel. Lamb-

kill. Wicke.) *K. glauca*, Ait. (Swamp Laurel. Pale Laurel.)

Med. prop.: Leaves — Narcotic, anti-syphilitic, sedative, astringent; in *tinea capitis* and *psora*.

RHODODENDRON, L. Rose Bay. Azalea.

R. maximum, L. (Great Laurel. Rose Bay.) *R. prunatum*, Andr.

Med. prop.: Leaves — narcotic, stimulant, astringent, anti-rheumatic; in *gout*.

LEDUM, L. Labrador Tea.

L. palustre, L. (Wild Rose-mary. Marsh Tea. Swamp Tea.) *L. latifolium*, Ait.

Med. prop.: Leaves — pectoral, tonic, bitter, sub-astringent, vulnerary; insecticide; used as tea. These leaves are also thought to be narcotic, and are used in the form of decoction in exanthematous diseases, whooping-cough, dysentery, leprosy, scabies or itch. In skin diseases used internally and externally.

CLETHRA, Gronov. White Alder.

C. alnifolia, L. (Sweet Pepper-bush. White Alder.)

Med. prop.: Leaves and flower — diuretic, excitant.

CHIMAPHILA, Pursh. Pipsissewa.

C. umbellata, Nutt. (King's Cure. Prince's-Pine. Ground Holly. Pipsissewa.) *C. Menziesii*, Spreng. *C. maculata*, Pursh. (Rheumatism-weed. Spotted Wintergreen. Spotted Pipsissewa.)

Med. prop.: Plant — diuretic, tonic, alterative, narcotic, astringent, anti-syphilitic, anti-epileptic, exanthematous. The decoction may be used internally and externally in *scrofula* and *nephritic affections*.

MONESES, Salisb.

M. uniflora, Gray. (One-flowered Wintergreen or *Pyrola*.
Med. prop.: Leaves — tonic, astringent, diuretic, anti-
spasmodic.

PYROLA, Tourn. Wintergreen. Shin-leaf.

P. elliptica, Nutt. (Shin-leaf.) *P. rotundifolia*, L.
(Round-leaved *P.* False Wintergreen. Indian Lettuce.
Consumption-weed. Canker Lettuce.)

Med. prop.: Leaves — diuretic, astringent, tonic, anti-
spasmodic. Given in consumption or pulmonary phthisis.

PTEROSPORA, Nutt. Pine-drops.

P. andromeda, Nutt. (Albany Beech-drops.)

Med. prop.: Root — bitter, anthelmintic, diuretic, em-
menagogue.

AZALEA, L. False Honeysuckle. Azalea.

A. viscosa, L. (Clammy Azalea. Swamp Honey-
suckle.) Var. *nitida*, Gray. (Swamp Pink.) *A. nudi-
florum*, Torr. (Wild Honeysuckle. Swamp Apple or
Cheeses. Pinxter Flower.)

Med. prop.: Plant — astringent.

LOISELEURIA, Desv. Creeping Azalea.

L. procumbens, Desv. (Alpine Azalea.)

Med. prop.: Plant — astringent.

MONOTROPA, L. Indian Pipe. Pine-sap.

M. uniflora, L. (Pipe-plant. Indian-Pipe. Fit-root.
American Ice-plant.) *M. Hypopitys*, L. (Pine-sap.
False Beech-drops.)

Med. prop.: Root — bitter, astringent, tonic, emetic,
diuretic, nauseant, sedative, nervine, antispasmodic. Used
in epilepsy. Decoction used.

ORDER LENNOACEÆ.

AMMOBROMA, Torr.

A. Sonorae, Torr. The roasted stems edible. *Pholisma arenarium*, Nutt. of this Order has an oily seed.

ORDER, PLUMBAGINACEÆ. (*Leadwort Family.*)

STATICE, Tourn. Sea-Lavender. Marsh-Rosemary.

S. Limonium, L. (European Thrift. Marsh-Rosemary.)
Var. Caroliniana, Gray. (Ink-root. Canker — root.
Sea Thrift. Marsh-root. American Thrift. Lavender
Thrift.)

Med. prop.: Root — astringent; in cholera infantum, canker, spongy gums, and diarrhoea; also tonic. Used in decoction.

ARMERIA, Willd. Thrift. Sea Pink.

A. vulgaris, Willd. (Common Thrift.)

Med. prop.: Flower — diuretic.

PLUMBAGO, Tourn. Leadwort.

P. Scandens, L. (Leadwort. *Herbe au Diable.*)

Med. prop.: Root — vesicant; an energetic blister; in pleurisy and other internal inflammations.

ORDER, PRIMULACEÆ. (*Primrose Family.*)

DODECATHEON, L. Shooting-Star.

D. Meadia, L. (American Cowslip.) Plant used as salad.

LYSIMACHIA, Tourn. Loosestrife.

L. Fraseri, Derby. L. quadrifolia, L. (Four-Leaved Loosestrife Yellow Balm. Crosswort.) L. stricta, Ait. L.

NUMMULARIA, L. (Creeping Loosestrife. Moneywort. Wood Pimpernel.)

Med. prop.: Herb—vulnerary, antiscorbutic, astringent, stomachic, antiperiodic, expectorant, uterine tonic. Decoction may be used in amenorrhœa and dysmenorrhœa.

GLAUX, Tourn. Sea-Milkwort.

G. maritima, L. Plant used as salad.

ANAGALLIS, Tourn. Pimpernel.

A. arvensis, L. (Red Chickweed. Scarlet Pimpernel. Weatherglass.) Plant used.

Med. prop.: Anti-venomous, nervine, stimulant, expectorant, poison.

CENTUNCULUS, Dill. Chaffweed.

C. minimus, L. (Chaffweed. Bastard Pimpernel.)
Med. prop.; same as Anagallis.

SAMOLUS, Tourn. Brookweed.

S. Valerandi, L. (Water Pimpernel.)

Med. prop.: Leaves—vulnerary, purgative; for chaps.

ORDER, SAPOTACEÆ. (*Sappodilla Family.*)

CHRYSOPHYLLUM, L. Star-Apple.

C. CAINITO, L. (Broad-leaved Star-Apple.)

Med. prop.: Juice—astrigent.

BUMELIA, Swartz.

B. macrocarpa, Nutt. B. cuneata, Swartz. Fruit edible, pleasant.

MIMUSOPS, L.

M. Sieberi, A. DC. The plum-like fruit edible.

ORDER, EBENACEÆ. (*Ebony Family.*)

DIOSPYROS, L. Date Plum. Persimmon.

D. Virginiana, L. (Winter Plum. Common Persimmon. Jove's-fruit. American Date.)

Med. prop.: Bark — astringent, febrifuge, anti-periodic; fruit — astringent; edible. Dried seeds used as a substitute for coffee. Used in infusion a syrup for chronic dysentery, uterine hemorrhage.

ORDER, STYRACACEÆ. (*Storax Family.*)

STYRAX, Tourn. Storax.

S. Americana, Lam. (Spring Orange.) S. grandiflora, Ait. (Cane Storax-tree.) Balsam used.

Med. prop.: Aromatic, pectoral, vulnerary, stimulant, expectorant.

SYMPLOCOS, Jacq. Sweet-leaf.

S. tinctoria, L'Her. (Sweet-leaf.) Sweetish.

Med. prop.: Bark of root — tonic.

ORDER, OLEACEÆ. (*Olive Family.*)

LIGUSTRUM, Tourn. Privet.

L. VULGARE, L. (Common Privet or Prim.)

Med. prop.: Leaves — astringent, bitter; fruit — cathartic.

OLEA, Tourn. Olive.

O. EUROPAEA, L. (European Olive.) Planted in Southern part of California.

Med. prop.: Bark and leaves — febrifuge; fruit yields olive oil.

FRAXINUS, Tourn. Ash.

F. Americana, L. (White Ash.) F. pubescens, Lam. (Red Ash.) F. viridis, Michx. f. (Green Ash.) F. platycarpa, Michx. (Water Ash.) F. quadrangulata, Michx. (Blue Ash.) F. Sambucifolia, Lam. (Black Ash.) Bark chiefly used.

Med. prop.: Tonic, cathartic, diuretic, astringent, anti-periodic, exanthematous, discutient; seed — in obesity; leaves — in gout.

CHIONANTHUS, L. Fringe-Tree.

C. Virginica, L. (Poison Ash. Fringe-Tree. White-fringe. Old-man's-beard.) Bark used.

Med. prop.: Aperient, alterative, diuretic, tonic, febrifuge.

ORDER, AQUIFOLIACEÆ. (*Holly Family.*)

ILEX, L. Holly.

I. opaca, Ait. (American Holly.) I. Cassine, L. (Carolina Tea. Cassena. Yaupon.) I. myrtifolia, Walt. I. Dahoon, Walt. (Dahoon Holly.) I. verticillata, Gray. (Black Alder. Winterberry.) I. lævigata, Gray. (Smooth Winterberry.) I. glabra, Gray. (Inkberry.)

Med. prop.: Leaves — astringent, tonic, antiseptic, emetic, febrifuge, aromatic, stomachic, stimulant, expectorant, diuretic; fruit especially of I. glabra — emetic tonic.

NEMOPANTHES, Raf. Mountain Holly.

N. Canadensis, DC. (Canadian Holly.)

Med. Prop.: Bark, leaves and buds — tonic, expectorant, laxative, febrifuge.

ORDER, APOCYNACEÆ. (*Dogbane Family.*)

APOCYNUM, Tourn. Dogbane. Indian Hemp.

A. androsæmifolium, L. (Indian Physic. Wandering Milkweed. Spreading Dogbane. Bitter-root.) *A. cannabinum*, L. (Black Indian Hemp.)

Med. prop.: Root — emetic, cathartic, diuretic, sudorific, expectorant, anthelmintic, sternutatory.

TRACHELOSPERMUM, Lemaire.

T. diforme, Gray.

Med. prop.: Astringent — for warts.

ORDER, ASCLEPIADACEÆ. (*Milkweed Family.*)

ASCLEPIAS, L. Milkweed. Silkweed.

A. tuberosa, L. (Orange Swallow-wort. Butterfly-weed. Flux-root. Pleurisy-root. White or Wind-root.) *A. decumbens*, Pursh. (Var. of last.) (Creeping Milkweed.) *A. Curassavica*, L. (Blood-weed.) *A. incarnata*, L. (White Indian Hemp. Water Nerve-root.) Var. *pulchra*, Pers. *A. Cornuti*, Decaisne. (Swallow-wort. Common Milkweed.) *A. Sullivanti*, Engelm. (Smooth M.) *A. tomentosa*, Ell. *A. obovata*, Ell. *A. verticillata*, L.

Med. prop.: Root — expectorant, diuretic, diaphoretic, carminative, tonic, alterative, purgative, emmenagogue, emetic, anthelmintic; *A. decumbens*, esculent. *A. verticillata*, antidote for bites and stings of insects; in pleurisy.

ACERATES, Ell.

A. viridiflora, Ell. (Green Milkweed.)

Med. prop.: Plant — carminative, diuretic, tonic, antispasmodic.

ASCLEPIODORA, Gray.

A. decumbens, Gray. (Mexican Snakeroot.)

Med. prop.: Plant — used as a specific in snakebite.

GONOLOBUS, Michx.

G. laevis, Michx. Var. macrophyllus, Gray. (Anglepod.) G. hirsutus, Michx. (Negro-vine.)

Med. prop.: Root — cathartic, drastic; juice — narcotic; poison.

PERIPLOCA, L.

P. GRAECA, L. (Scammony Senna. Smyrna Scammony.)

Med. prop.: Leaves — cathartic; mixed with Senna.

ORDER, LOGANIACEÆ. (*Logania Family.*)

GELSEMIUM, Juss. (Yellow Jessamine.)

G. sempervirens, Ait. (Gelsemium. Yellow J.)

Med. prop.: Root — febrifuge, nervine, antispasmodic, alterative, emmenagogue, narcotic. Useful chiefly in neuralgic and spasmodic affections, and where there is nervousness or restlessness. Of much value in allaying nervous irritability of stomach in certain gastric affections; in atonic dyspepsia.

SPIGELIA, L. Pink-root.

S. Marilandica, L. (Worm-or Pink-root. Wormgrass. Carolina or Indian Pink.)

Med. prop.: Root — anthelmintic, narcotic. Give in substance or infusion. Dose for child of three years gr. v — to gr. xx, followed by cathartic if necessary; to expel worms.

MITREOLA, L.

M. petiolata, Torr. & Gray. (Pink Snakeroot.) *M. Sissilifolia*, Torr. & Gray.

Med. prop.: Root — anthelmintic; perhaps anti-venomous.

ORDER, GENTIANACEÆ. (*Gentian Family.*)

ERYTHRAEA, Renealm. Centaury.

E. CENTAURIUM, Pers. (European Centaury.)

Med. prop.: Tops and root — aromatic, bitter, tonic, febrifuge; insecticide.

SABBATIA, Adans.

S. angularis, Pursh. (Bitter Clover. American or Red Centaury.) *S. Elliottii*, Steud. (Quinine-flower.) Plant used. *S. campestris*, Nutt.

Med. prop.: Antibilious, tonic, bitter, vermifuge, emmenagogue, febrifuge.

GENTIANA, Tourn. Gentian.

G. crinata, Froel. (Fringed Gentian.) *G. Amarella*, (Bastard Gentian.) *G. quinqueflora*, Lam. (Gall-weed. Five-flowered Gentian.) *G. alba*, Muhl. (White Gentian. Lung-flower.) *G. ochroleuca*, Froel. (Marsh Gentian. Yellowish-white G.) *G. Saponaria*, L. (Soapwort Gentian.)

Med. prop.: Root — bitter, tonic, stomachic, astringent, anthelmintic, antibilious, febrifuge, diaphoretic, cholagogue; plant of *G. quinqueflora* — same properties. May be used in infusion as “bitters” for biliousness.

FRASERA, Walt.

F. Carolinensis, Walt. (Pyramid-flower or plant. Indian Lettuce, American Columbo. Yellow Gentian.)

Med. prop.: Root — bitter, tonic, antiseptic, febrifuge.
Dose: Wineglassful of decoction or infusion thrice daily.

MENYANTHES, Tourn, Buckbean.

M. trifoliata, L. (Bog Myrtle. Marsh Trefoil. Water Shamrock. Buckbean.) Plant used.

Med. prop.: Bitter, tonic, anthelmintic, diuretic, cathartic, emetic. Decoction or infusion as in *Frasera*.

BARTONIA, Muhl.

B. verna, Muhl. (American Buckbean.)

Med. prop.: Plant — bitter, tonic, antiperiodic, purgative, depurative. Use like preceding.

ORDER, POLEMONIACEÆ. (*Polemonium Family.*)

POLEMONIUM, Tourn. Greek Valerian. Jacob's Ladder.

P. cæruleum, L. (Greek Valerian.) *P. reptans*, L. (Sweat-root, American Gr. Val. Abcess Root). Jacob's Ladder.)

Med. prop.: Root — alterative, pectoral, diaphoretic, diuretic, expectorant, astringent, vulnerary, antivenomous.

ORDER, HYDROPHYLLACEÆ. (*Water-leaf family.*)

HYDROPHYLLUM, Tourn. Water-leaf.

H. Virginicum, L. (Burr Flower.)

Med. prop.: Plant — astringent, diuretic. Use decoction.

ERIODICTYON, Benth. Mountain Balm.

E. glutinosum, Benth. (*Yerba Santa*.) *E. tomentosum*, Benth. Leaves used; in pneumonia, asthma, and bronchitis.

Med. prop.: Aromatic, pectoral, tonic, expectorant. Highly recommended in asthma. Dose dr. ss—dr. j, in decoction or tincture.

ORDER, BORRAGINACEÆ. (*Borage Family*.)

CORDIA, Plumier, L.

C. Boissieri, A. DC. (*Anachuite-Wood*.)

Med. prop.: Wood—pectoral; in phthisic. Use infusion.

HELIOTROPIMUM, Tourn. Tournsole. Heliotrope.

H. convolvulaceum, Gray. (*Heliotrope*.) *H. indicum*, L. (*Tournsole*.) Plant used.

Med. prop.: Bitter, vulnerary, exanthematous, antivenomous.

CYNOGLOSSUM, Tourn. Houndstongue.

C. officinale, L. (*Common Houndstongue*.) *C. Virginicum*, L. (*Wild Comfrey*.) *C. Morisoni*, DC. (*Dysentery root. Beggar's lice*.)

Med. prop.: Plant—astrigent, aromatic, anodyne, mucilaginous, narcotic; Root—mucilaginous, tonic, astrigent, diuretic, vulnerary; in spitting blood and in goitre; in dysentery. Infusion.

MERTENSIA, Roth. Smooth Lungwort.

M. Virginica, DC. (*Cowslip. Virginia Cowslip or Lungwort. Jerusalem Cowslip*.)

Med. prop.: Plant—mucilaginous, demulcent. Use infusion.

MYOSOTIS, L. Forget-me-not.

M. PALUSTRIS, Withering. (Scorpion-weed. Forget-me-not.) M. arvensis, Hoffm.

Med. prop.: Flower — pectoral.

LITHOSPERMUM, Tourn. Gromwell.

L. arvense, L. (Stone-seed.) L. OFFICINALE, L. (Pearl-plant.)

Med. prop.: Seed — diuretic, lithontryptic; Plant dyes red.

ONOSMODIUM, Michx. False Gromwell.

O. Carolinianum, DC. O. Virginianum, DC. (Wild Job's-tears.)

Med. prop.: Root and seed — diuretic, tonic, lithontryptic.

ASPERUGO, Tourn. German Mudwort.

A. PROCUMBENS, L. (Wild Bugloss.) (In Minnesota.)

Med. prop.: Plant — sudorific, vulnerary.

SYMPHYTUM, Tourn. Comfrey.

S. OFFICINALE, L. (Comfrey.) Root used.

Med. prop.: Demulcent, astringent, mucilaginous, pectoral, vulnerary; used in uterine disorders, in decoction or infusion.

LYCOPSIS, L. Bugloss.

L. arvensis, L. (Wild Bugloss. Small B.)

Med. prop.: Plant — pectoral.

ECHIUM, Tourn. Blueweed.

E. VULGARE, L. (Viper's Bugloss. Adderwort. Blueweed.)

Med. prop.: Root — astringent, depurative.

ORDER, CONVULVULACEÆ. (*Convolvulus Family.*)

IPOMOEA, L. Morning Glory.

I. NIL, Roth. (Blue Morning Glory.) I. QUAMOCLIT, L. (Cypress Vine. Red Jasmine. Wild Rhubarb.) I. purpurea, Lam. (Common Morning Glory.) I. cathartica, Poir. I. Jalapa, Pursh. I. pandurata, Meyer. (Wild Jalap. Wild Potato or Potato-vine. Manroot. Man-of-the-Earth. Scammony-root. Wild Scammony.) I. sagittata, Cav.

Med. prop.: Plant and flower of I. Quamoclit — purgative, stimulant, cephalic; root of all — laxative, purgative, diuretic, hydragogue, cathartic.

CONVOLVULUS, L. Bindweed.

C. Soldanella, L. (Sea Bindweed. Scotch Scurvy grass.) C. sepium, L. (Hedge Bindweed. Bracted-Bindweed.) C. ARVENSIS, L. (Small Bindweed.)

Med. prop.: Root — diuretic, purgative; leaves — diuretic, drastic, cathartic; in strangury and calculous complaints. May be used in decoction.

CUSCUTA, Tourn. Dodder.

C. Gronovii Willd. C. glomerata, Choisy. C. Americana, L. (Dodder. Devil's-gut. Love Vine. Scaldweed.) (In South Florida.)

ORDER, SOLANACEÆ. (*Nightshade Family.*)

LYCOPERSICUM, Tourn. Tomato.

L. ESCULENTUM, Mill. (Tomato. Love Apple.) Var. cerasiforme, Gray. Origin of Garden Tomato.

Med. prop.: Tops — nauseant, anodyne; fruit — laxative, antiscorbutic, resolvent, emetic; nutritious.

SOLANUM, Tourn. Nightshade.

S. VIRGINIANUM, L. (Virginian Nightshade.) S. tuberosum, L. Potato-Plant.) Var. boreale, Gray. S. NIGRUM, L. (Deadly Nightshade. Garden Nightshade. Black Nightshade.) S. PSEUDO-CAPSICUM, L. (Jerusalem Cherry.) S. DULCAMARA, L. (Wolf-grape. Bittersweet. Nightshade-vine. Woody N.) S. Carolinense, L. (Horse Nettle.)

Med. prop.: Plant — narcotic, anodyne, depurative, deobstruent, herpetic; tops — narcotic, antispasmodic; flower — narcotic, diaphoretic; poisonous: bulb edible.

CAPSICUM, Tourn. Cayenne Pepper.

C. FRUTESCENS, L. (Bird Pepper.) C. baccatum, L. (Bird P.)

Med. prop.: Fruit — pungent, stimulant, diaphoretic, tonic, sialagogue, alterative, antirheumatic, carminative.

PHYSALIS, L. Ground Cherry.

P. obscura, Michx. P. pubescens, L. P. viscosa, L. (Bladder-pod. Yellow Henbane.) P. lanceolata, Michx. (Ground Cherry.)

Med. prop.: Fruit — diuretic, sedative.

NICANDRA, Adans. Apple-of-Peru.

N. PHYSALOIDES, Gærtn. (Apple-of-Peru.)

Med. prop.: Like Physalis.

LYCIUM, L.

L. VULGARE, Dunal. (Matrimony-vine. Box-thorn.)

Med. prop.: Root — diuretic; leaves used as salad.

DATURA, L. Stramonium. Thorn-Apple.

D. STRAMONIUM, L. (Common Stramonium, Jimson-

Weed, or Jamestown-weed.) *D. TATULA*, L. (Purple S.)
D. metaloides, DC. (Sweet-scented Datura.)

Med. prop.: Plant — stimulant, sedative; smoked for asthma; poultice for indolent ulcers; poison.

HYOSCYAMUS, Tourn. Henbane.

H. NIGER, L. (Henbane. Black Henbane.)

Med. prop.: Herb — narcotic, anodyne, antispasmodic, stimulant; poison, hypnotic, and otherwise similar to *Belladonna*, but less powerful.

NICOTIANA, Tourn. Tobacco.

N. TABACUM, L. (Virginia Tobacco. Common Tobacco. Drunkwort.) Var. *Undulata*, Gray. *N. RUSTICA*, L. (Wild T.) *N. repanda*, Willd. (Havana T.) *N. quadrivalis*, Pursh. (Missouri Tobacco.) *N. attenuata*, Torr. *N. Bigelovii*, Watson. *N. Clevelandii*, Gray.

Med. prop.: Leaves — narcotic, sedative, emetic, diuretic, errhine, relaxant; poison; insecticide, used locally for insect bites.

ORDER, SCROPHULARIACEÆ. (*Figwort Family.*)

VERBASCUM, L. Mullein.

V. THAPSUS, L. (Shepherd's Club. Common Mullein. Bullock's Lungwort.) *V. LYCHNITIS*, L. (White M.) *V. BLATTARIA*, L. (Moth. M.)

Med. prop.: Plant — demulcent, diuretic, anodyne, antispasmodic, vulnerary; seed — narcotic, purgative; decoction of leaves in diarrhoea; used in aphonia and asthma.

LINARIA, Tourn. Toad-Flax.

L. VULGARIS, Mill. (Butter and Eggs. Ramsted. Common Toad-Flax. Gallwort.) *L. SPURIA*, Mill.

Med. prop.: Plant — cathartic, diuretic, deobstruent; in diabetes.

ANTIRRHINUM, Tourn. Snapdragon.

A. MAJUS, L. (Common Snapdragon.)

Med. prop.: Plant — anti-hysterical: ophthalmic.

SCROPHULARIA, Tourn. Figwort.

S. nodosa, L. Var. Marilandica, Gray. (Scrophula Plant. Heal-all.) S. Californica, Cham. (California Figwort.)

Med. prop.: Leaves and root — alterative, diuretic, anodyne, hepatic, deobstruent, diaphoretic; plant — depurative, vulnerary, emmenagogue; exanthematous.

CHELONE, L. Balmony. Turtle-head.

C. glabra, L. (Bitter-Herb. Shell-flower. Balmony. Salt-Rheum-Weed.) C. obliqua, L.

Med. prop.: Leaves — bitter, tonic, cathartic, hepatic, anthelmintic. Infusion used as a wash for Salt-rheum.

MIMULUS, L. Monkey-flower.

M. moschatus, Dougl. (Vegetable Musk. Musk-plant.)

Med. prop.: Plant — stimulant.

GRATIOLA, L. Hedge Hyssop.

G. Virginiana, L. (Water Jessamine.) G. aurea, Muhl, G. officinalis, L. (Hedge Hyssop.)

Med. prop.: Plant — vermifuge, diuretic, narcotic, drastic, acrid, emetic. Employed for dropsy. Dose of powder 15 to 20 grains in infusion.

LIMOSELLA, L. Mudwort.

L. aquatica, L. (Mudwort.)

Med. prop. : Plant and flower — refrigerant, maturative.

CAPRARIA, Goat-weed.

C. biflora, L. (Goat's-weed. Shrubby Goutweed. Carib Tea. West-Indian Tea.)

Med. prop. : Flower — astringent ; used as tea.

VERONICA, L. Speedwell. Brooklime.

V. Virginica, L. (Physic-root. Culver's-root. Culver's Physic. Leptandra. Black-root) *V. anagallis*, L. (Water Speedwell.) *V. Americana*, Schwein. (American Brooklime.) *V. scutellata*, L. (Marsh Speedwell.) *V. officinalis*, L. (Common Speedwell. Virginia Speedwell. Paul's Betony.) *V. peregrina*, L. (Neckweed. Purslane Speedwell.) *V. AGRESTIS*, L. (Field Speedwell.) *V. HEDERÆFOLIA*, L. (Ivy-leaved Speedwell. Winterweed.)

Med. prop. : Herb — anti-scorbutic diuretic, emmenagogue, exanthematous, febrifuge, vulnerary ; used as a wash for ulcers.

GERARDIA, L.

G. pedicularia, L. (Bushy Gerardia. Feverweed.) *G. quercifolia*, Pursh. (Golden Oak. Smooth False Foxglove.)

Med. prop. : Herb — diaphoretic, antiseptic, stimulant, sedative, febrifuge.

EUPHRASIA, Tourn.

E. officinalis, L. (Eyebright.) Leaves used.

Med. prop. : Tonic, astringent, antiepileptic, ophthalmic.

PEDICULARIS, Tourn. Lousewort.

P. Canadensis, L. (Common Lousewort. Wood Betony.)

Med. prop. : Plant — tonic, astringent, sedative, vulnerary.

RHINANTHUS, L. Yellow Rattle.

R. Crista-galli, L. (Penny-grass. Yellow Rattle.)

Med. prop. : Plant — alterative, detergent ; to kill lice.

MELAMPYRUM, Tourn.

M. Americanum, Michx. (Cow-wheat.)

Med. prop. : Seed — aphrodisiac ; root — diuretic.

ORDER, OROBANCHACEÆ. (*Broom-rape Family.*)

OROBANCHE, L. Broom-Rape.

O. MINOR, L. (Broom-rape.)

Med. prop. : Perhaps like the following genus.

APHYLLON, Mitchell. Cancer-root.

A. uniflorum, Gray. (One-flowered Broom-rape.)

Med. prop. : Root — nauseant, bitter, astringent, vulnerary.

CONOPHOLIS, Wallr. Squaw-root.

C. Americana, Wallr. (Clap-root or wort. Squaw-root. American Broom-rape. Earth Club.)

Med. prop. : Root — depurative, astringent, vulnerary, bitter, nauseant.

EPIPHEGUS, Nutt. Beech-drops.

E. Virginiana, Bart. (Cancer-root. Beech-drops.)

Med. prop. : Same as preceding genus.

ORDER, LENTIBULARIACEÆ. (*Bladderwort Family.*)

UTRICULARIA, L. Bladderwort.

U. vulgaris, L. (Greater Bladderwort.)

Med. prop. : Plant — diuretic.

PINGUICULA, Tourn. Butterwort.

P. vulgaris, L. (Rot-grass.) *P. elatior*, Michx. (Butterwort.)

Med. prop.: Flower — purgative, vulnerary, detersive.

ORDER, BIGNONACEÆ. (*Bignonia Family.*)

BIGNONIA, Tourn.

B. capreolata, L. (Cross-vine.)

Med. prop.: A substitute for sarsaparilla.

TECOMA, Juss. Trumpet-flower.

T. radicans, Juss. (Trumpet-Creeper. Trumpet-flower.)

Med. prop.: Root — vulnerary, sudorific, antivenomous.

CATALPA, Scop., Walt.

C. bignonioides, Walt. (Catawba-tree. Catalpa-tree.)

Med. prop.: Pods — tonic, vermifuge; in nervous asthma.

ORDER, PEDALIACEÆ.

SESAMUM, L. Bene-plant. Oil-plant.

S. indicum, L. (Bene-plant. Oily-grain.)

Med. prop.: Leaves — emollient, demulcent, vulnerary.

MARTYNIA, L. Unicorn-plant.

M. proboscidea, Glox. (Martynia. Double-claw.)

Med. prop.: Fruit — antiscorbutic; used for pickles.

ORDER, ACANTHACEÆ. (*Acanthus Family.*)

RUELLIA, Plum.

R. tuberosa, L. (Many-Root.)

Med. prop.: A substitute for Ipecac.

DIANTHERA, L.

D. Americana, L. (Water Willow.)

Med. prop.: Plant — bitter, tonic, stomachic.

ORDER, VERBENACEÆ. (*Vervain Family.*)

VERBENA, Tourn. Vervain.

V. officinalis, L. (European Vervain.) *V. Urticaefolia*, L. (Nettle-leaved Vervain. White Vervain.)
V. hastata, L. (Wild Hyssop. American Vervain. False Vervain.)

Med. prop.: Plant — febrifuge, emetic, tonic, expectorant, sudorific, vulnerary, rubefacient; in Rhus poisoning.

LANTANA, L.

L. Camara, L. (Bahama Tea. Sage-Tree.)

Med. prop.: Leaves — diuretic, sedative; used as tea.

CALLICARPA, L.

C. Americana, L. (Sour-bush. French Mulberry.)

Med. prop.: Buds — acid, astringent; leaves — for dropsy.

AVICENNIA, L.

A. nitida, Jacq. (White Mangrove. Courida.)

Med. prop.: Bark — astringent.

ORDER, LABIATÆ. (*Mint Family.*)

TEUCRUM, L. Germander.

T. Canadense, L. (Wood Sage. Germander.)

Med. prop.: Plant — antirheumatic, aromatic, stimulant, bitter, tonic.

AJUGA, L.

A. reptans, L. (Bugle.) The entire plant is used.

Med. prop.: Subastringent, bitter.

. OCIMUM, Tourn. Basil.

O. Basilicum, L. (Sweet Basil.)

Med. prop.: Herb — aromatic, stimulant, nervine, condiment.

COLLINSONIA, L. Horse-Balm. Citronella.

C. Canadensis, L. (Horse-weed. Knob-grass. Stoneroot.)

Med. prop.: Root — diuretic, irritant, antispasmodic, expectorant; in gravel, leucorrhœa, and catarrh of bladder. Leaves — vulnerary.

MENTHA, Tourn. Mint.

M. sylvestris, L. (Horse-Mint.) *M. rotundifolia*, L. (Patagonia Mint.) *M. veridis*, L. (Spearmint.)

M. piperita, L. (Peppermint.) *M. aquatica*, L. (Water Mint.) *M. arvensis*, L. (Water Calaminth.) *M. sativa*, L. *M. Canadensis*, L.

Med. prop.: Plant — bitter, pungent, antispasmodic, antirheumatic, aromatic, stimulant, stomachic, carminative, diuretic; Oil — rubefacient, stimulant, antispasmodic, locally — sedative in neuralgia.

LYCOPUS, Tourn. Water Horehound. Bugle-weed. Gipsywort.

L. Virginicus, S. (Wolf-foot. Bugleweed. Sweet Bugleweed.) *L. sinuatus*, Ell. (Bitter Bugle-weed.) *L. europeus*, L. (Bitter Bugle-weed.)

Med. prop.: Plant — tonic, narcotic, sedative, antiperiodic, astringent, pectoral; used in pulmonary hemorrhage. Given in infusion.

CUNILA, L. Dittany.

C. Mariana, L. (Stone Mint. American or Mountain Dittany.)

Med. prop.: Herb — stimulant, nervine, sudorific, tonic, vulnerary, cephalic, pungent; in headache; oil — carminative, diaphoretic, rubefacient. Dose of oil gtt. 5-gtt. 20.

HYSSOPUS, Tourn. Hyssop.

H. OFFICINALIS, L. (Common or Wild Hyssop.)

Med. prop.: Herb — aromatic, stimulant, sudorific, pectoral.

RYCNANTHEMUM, Michx. Mountain Mint or Basil.

P. aristatum, Michx. (Wild Basil.) P. linifolium, Pursh.

(Flax-leaved Basil.) P. lanceolatum, Pursh. (Prairie Hyssop. Narrow Virginia-Thyme.) P. muticum, Var. pilosum, Gray. P. incanum, Michx. P. montanum, Michx. (Mountain Mint.)

Med. prop.: Plant — diaphoretic, stimulant, sedative, antispasmodic, carminative, tonic; oil stimulant.

MONARDELLA, Benth.

M. odoratissima, Benth. M. linoides, Gray. M. undulata, Benth.

Med. prop.: Plant — carminative.

ORIGANUM, Tourn. Wild Marjoram.

O. VULGARE, L. (Origanum. Wild Marjoram.) Herb used.

Med. prop.: Aromatic, pungent, tonic, emmenagogue, stimulant; oil — exanthematous, stimulant; in liniments for sprains. May be given in infusion or wine; fomentations.

THYMUS, Tourn. Thyme.

T. SERPYLLUM, L. (Creeping Thyme. Wild T.)

Med. prop.: Herb—resolvent, tonic, carminative, emmenagogue, antispasmodic, antiseptic; the phenol of the oil closely resembles thymol. Hence it may be used as an antiseptic dressing in wounds and ulcers.

SATUREIA, Tourn. Savory.

S. HORTENSIS, L. (Summer Savory.)

Med. prop.: Herb—aromatic, aphrodisiac, carminative, stimulant, emmenagogue; condiment.

MICROMERIA, Benth.

M. Douglasii, Benth. (Yerba Buena.)

Med. prop.: Plant—anthelmintic, febrifuge, emmenagogue.

CALAMINTHA, Tourn., Moench. Calamint.

C. NEPETA, Link. (Basil Thyme.) *C. OFFICINALIS*, Moench. (European Calamint.) *C. Clinopodium*, Benth. (Basil. Horse Thyme.)

Med. prop.: Herb—aromatic, stimulant, diaphoretic, diuretic, stomachic, cordial, febrifuge, discutient, expectorant, emmenagogue.

MELISSA, Tourn. Balm.

M. OFFICINALIS, L. (Cure-all. Common Balm. Dropsy-plant. Balm-lemon.)

Med. prop.: Herb and flower—aromatic, cephalic, diaphoretic, emmenagogue.

HEDEOMA, Pers. Pennyroyal.

H. pulegioides, Pers. (Stinking Balm. Tickweed. American Pennyroyal. Squaw-mint.)

Med. prop.: Herb — stimulant, diaphoretic, sudorific, carminative, emmenagogue, abortive.

SALVIA, L. Sage.

S. Columbariæ, Benth. Used as mucilaginous tea by Indians, edible. *S. OFFICINALIS*, L. (Common Sage.) *S. lyrata*, L. (Wild Sage. Lyre-leaved *S.*) Cancer-weed. Vervain *S.*) *S. urticifolia*, L. (Nettle-leaved Sage.) *S. Sclarea*, L. (Clary.) *S. VERBENACEA*, L. Muhl. (Clear-Eye.)

Med. prop.: Leaves — tonic, sudorific, astringent, expectorant, aromatic, antiphrodisiac; Herb — antispasmodic, balsamic, cordial; Seed — ophthalmic; may be used in poultice like flaxseed. Juice — especially of *S. lyrata* — used for warts and cancers.

MONARDA, L. Horse-Mint.

M. didyma, L. (Oswego-tea. Red Balm. Bee-Balm.) *M. fistulosa*, L. (Wild Bergamot. Horse-mint.) *M. punctata*, L. (Horse-mint.) Leaves or plant, and oil used.

Med. prop.: Diaphoretic, diuretic, tonic, carminative, anti-periodic, stimulant, rubefacient, bitter, nervine, stomachic, deobstruent; in colic.

BLEPHILIA, Raf.

B. hirsuta, Benth. (Ohio Horsemint.)

Med. prop.: Herb — aromatic, tonic, stimulant, carminative.

NEPETA, L. Catmint.

N. Cataria, L. (Catnip. Catwort.) *N. glechoma*, Benth. (Cat-paw or foot. Ground Ivy.)

Med. prop.: Leaves — aromatic, diaphoretic, diuretic, carminative, antispasmodic, anodyne, emmenagogue, tonic, stimulant, pectoral, cephalic; in lead colic and chlorosis.

SCUTELLARIA, L. Skullcap.

S. LATERIFLORA, L. (Mad-dog or Blue Skullcap.) *S. integrifolia*, L. (Large-flowered *S.*) *S. galericulata*, L. (American *S.*) *S. pilosa*, Michx. *S. brevifolia*, Gray.

Med. prop.: Plant — bitter, tonic, antiperiodic, diuretic, nervine, antispasmodic; in ague.

BRUNELLA, Tourn.

B. vulgaris, L. (Heal-all. Self-heal. Sickle-wort.)

Med. prop.: Plant — astringent; in sore throat.

MARRUBIUM, Tourn. Horehound.

M. vulgare, L. (White Horehound.) Common Horehound.)

Med. prop.: Plant — aromatic, bitter, tonic, diaphoretic, expectorant, pectoral, emmenagogue.

PHYSOSTIGIA, Benth. False Dragon-Head.

P. Virginiana, Benth. (False Dragon-Head.)

Med. prop.: Plant — aromatic, tonic.

BALLOTA, L. Black Horehound.

B. NIGRA, L. (Black Horehound. Stinking Horehound.) Plant used.

Med. prop.: Resolvent, detersive, anti-spasmodic.

LEONOTIS, R. Br.

L. NEPETAEFOLIA, L., R. Br. Perhaps like *L. ovata* — leaves — narcotic, cathartic, emmenagogue.

LEONURUS, L. Motherwort.

L. CARDIACA, L. (Common Motherwort.)

Med. prop.: Herb — aromatic, bitter, emmenagogue;

used in hysteria and suppression of lochia, in decoction or infusion.

LAMIUM, Tourn. Dead-Nettle.

L. AMPLEXICAULE, L. (Henbit. Dead-Nettle.) L. ALBUM, L. (Blind Nettle.) Plant used.

Med. prop.: Stimulant, sudorific, laxative, antirheumatic, cephalic, styptic; in female disorders.

GALEOPSIS, L. Hemp-Nettle.

G. TETRAHIT, L. (Hemp Nettle.) G. LADANUM, L. (Ironwort.)

Med. prop.: Antispasmodic, detersive, resolvent, bitter, vulnerary, pectoral.

STACHYS, Tourn. Woundwort.

S. palustris, L. (Hedge Nettle. Clown-heal. Marsh or Clown's Woundwort.) S. BETONICA, Benth. (Wood Betony.)

Med. prop.: Plant — nauseant, expectorant, emmenagogue, antihysterical, vulnerary; leaves — aperient, cordial; root — emetic.

ORDER, PLANTAGINACEÆ. (*Plantain Family.*)

PLANTAGO, Tourn. Plantain. Ribwort.

P. cordata, Lam. (Heart-leaved Plantain.) P. major, L. (Common Plantain.) P. LANCEOLATA, L. (Ripple, or Ribgrass. English Plantain.) P. Virginica, L.

Med. prop.: Plant — alterative, diuretic, antiseptic, antisyphilitic, vulnerary; root and leaves — astringent, alterative, vulnerary; leaves — refrigerant, anodyne, antiemetic; used in female disorders.

ORDER, ARISTOLOCHIACEÆ. (*Birthwort Family.*)

ASARUM, Tourn. Wild Ginger. Asarabacca.

A. Canadense, L. (False Colts-foot. Canada Snake-root. Catsfoot. Indian Ginger.) A. Virginicum, L. (Southern Wild Ginger. Black Snake-weed.) Root used.

Med. prop.: Aromatic, stimulant, diaphoretic, carminative, expectorant.

ARISTOLOCHIA, Tourn. Birthwort.

A. Serpentaria, L. (Pelican flower. Virginia Snake-root. Texas Snakeroot.) A. Siphon, L'Her. (Pipe-vine. Dutchman's Pipe. Dutchman's Breeches.) A. tomentosa, Sims. (Climbing Birthwort.) Root used.

Med. prop.: Stimulant, tonic, diaphoretic, diuretic, aromatic, febrifuge, anodyne, exanthematous, emmenagogue.

ORDER, PHYTOLACCACEÆ. (*Pokeweed Family.*)

PHYTOLACCA, Tourn. Pokeweed.

P. decandra, L. (Virginia Poke. Common Poke or Scoke. Cancer Jalap. Garget. Pigeon-berry.)

Med. prop.: Root — alterative, resolvent, deobstruent, detersive, antisiphilitic, antiscorbutic.

ORDER, CHENOPODIACEÆ. (*Goosefoot Family.*)

CHENOPODIUM, L. Goosefoot. Pigweed.

C. ALBUM, L. (Lamb's Quarter. Pigweed.) C. BOTRYS, L. (Jerusalem Oak. Feather Geranium.) C. AMBROSIOIDES, L. (Mexican Tea.) C. anthelminticum,

L. (Wild Wormseed. Wormseed. American W.) C. rubrum, L. (Swinesbane.)

Med. prop.: Leaves — antiscorbutic, anthelmintic, narcotic; herb and fruit — anthelmintic; seed — oily.

BLITUM, Tourn. Blite.

B. capitatum, L. (Strawberry-Blite.) B. Bonus-Henricus, Reichenbach. (Good-King-Henry. English Mercury Plant.)

Med. prop.: Leaves — emollient, refrigerant, laxative; first, like spinach.

ENOTIA, Adans.

E. lanata, Moquin.

Med. prop.: Plant — astringent, antiperiodic; used in intermittent fever.

ATRIPLEX, Tourn. Orache.

A. patula, L. (Spreading Orache.)

Med. prop.: Juice — cathartic, drastic.

SALICORNIA, Tourn. Glasswort. Samphire.

S. herbacea, L. (Marsh Samphire.)

Med. prop.: Stems — antiscorbutic; pickled and eaten.

SALSOLA, L. Saltwort.

S. kali, L. (Soda Plant. Common Saltwort. Sea Grape.) Plant used.

Med. prop.: Stimulant, diuretic, hydragogue, emmenagogue; yields Barilla.

ORDER, AMARANTACEÆ. (*Amaranth Family.*)

AMARANTUS, Tourn. Amaranth.

A. HYPOCHONDRIACUS, L. (Pilewort. Prince's Feather.) A. ALBUS, L. (Pigweed. Green Amaranth.) A. retroflexus, L.

Med. prop.: Plant — vulnerary, antiplogistic, astringent, detersive; in Hemorrhoids or piles. *A. retroflexus*, and perhaps other species, furnish edible seeds to the Indians of our Western States and Territories.

ORDER, POLYGONACEÆ. (*Buckwheat Family.*)

COCOLOBA, Jacq. Sea-Grape.

C. UVIFERA, Jacq. (Seaside-Grape.)

Med. prop.: Plant—astringent; yields Jamaica Kino.

POLYGONUM, L. Knotweed.

P. ORIENTALE, L. (Prince's Feather.) *P. PERSICARIA*, L. (Lady's Thumb. Peachwort.) *P. hydropiper*, L. (Sickle-weed. Common Smart-weed. Biting Knot-weed.) *P. acre*, HBK. (Water Smartweed.) *P. hydropiperoides*, Michx. (Mild Water-Pepper.) *P. amphibium*, L. (Water Persicaria.) *P. Virginianum*, L. (Virginia Bistort.) *P. articulatum*, L. (Jointweed.) *P. aviculare*, L. (Knotgrass. Goose-grass. Door-weed. Birdweed.) Var. *erectum*, Roth. *P. arifolium*, L. (Halberd-leaved Tear-thumb. Sickle-grass. Dragonwort.) *P. Bistorta*, L. (Sweet Dock. Bistort.)

P. CONVULVULUS, L. (Black Bindweed. Climbing Buckwheat.)

Med. prop.: Plant — astringent, vulnerary, antiseptic; root — astringent, vulnerary, depurative, alterative, used like sarsaparilla; leaves — acrid, pungent, aperient, duretic, antiseptic; seed aromatic, purgative, emetic; in gravel. Root of *P. Bistorta* used as salad; seed of *P. Convolvulus* used like buckwheat. Used in poultices for visceral inflammations, of bowels, etc.

FAGOPYRUM, Tourn. Buckwheat.

F. ESCULENTUM, Moench. (Buckwheat.)

Seed esculent and used for food; farinaceous.

RUMEX, L. Dock. Sorrel.

R. PATIENTIA, L. (Monk's Rhubarb. Patience Dock. Wild Patience.) R. LONGIFOLIUS, DC. R. Britannica, L. (Pale Dock. Water D.) R. CRISPUS, L. (Sour Dock. Curled D. Yellow D.) R. OBTUSIFOLIUS, L. (Blunt-leaved D. Bitter D.) R. ACETOSELLA, L. (Field or Sheep Sorrel.) R. SANGUINEUS, L. (Bloody-veined Dock).

Med. prop.: Leaves — acid, refrigerant, diuretic, antiscorbutic, subastringent, laxative, used externally in cancer. root — depurative, astringent, antiscorbutic, tonic, alterative, laxative, slow and mild cathartic; powder as a dentifrice.

ORDER, LAURACEÆ. (*Laurel Family.*)

PERSEA, Gaertn. Alligator Pear.

P. Carolinensis, Ness. (Red Bay.) Fruit edible.

Med. prop.: Leaves — balsamic, pectoral, vulnerary; seed — astringent.

CASSYTA, L.

C. filiformis, Miller.

Med. prop.: Plant — deterative, astringent; used for wash in scald-head; insecticide.

SASSAFRAS, Nees.

S. officinalis, Nees. (Ague-tree. Common Sassafras. Cinnamon-Wood.)

Med. prop.: Bark — aromatic, stimulant, alterative, diuretic, diaphoretic; pitch — demulcent, emollient, ophthalmic; oil — rubefacient, antirheumatic, stimulant, antiseptic.

LINDERA, Thunberg. Wild Allspice. Fever-bush.

L. Benzoin, Meisner. (Spice-bush. Spice-wood. Benjamin-bush.)

Med. prop.: Twigs — aromatic, vermifuge, febrifuge, antiperiodic; fruit — spicy.

UMBELLULARIA, Nutt. Mountain Laurel. Spice-tree.

U. Californica, Nutt. (California Laurel or Olive or Cajeput.)

Med. prop.: Leaves — acrid, aromatic, sternutatory.

ORDER, THYMELEACEÆ. (*Mezereum Family.*)

DIRCA, L. Leatherwood. Moose-wood.

D. palustris, L. (Leatherwood. Wicopy.)

Med. prop.: Bark — acrid, rubefacient, vesicant, sudorific, expectorant; buds — poisonous.

ORDER, ELÆAGNACEÆ. (*Oleaster Family.*)

SHEPHERDIA, Nutt.

S. argentea, Nutt. (Buffalo-Berry.)

Med. prop.: Fruit — acid, anti-scorbutic; esculent.

ELÆAGNUS, L.

E. argentea, Pursh. (Silver-berry.)

Med. prop.: Fruit — emollient; edible.

ORDER, SANTALACEÆ. (*Sandalwood Family.*)

COMANDRA, Nutt. Bastard Toad-Flax.)

C. umbellata, Nutt. (Bastard Toad-flax.)

Med. prop.: Leaves — febrifuge, tonic.

PYRULARIA, Michx. Oil-nut.

P. oleifera, Gray. (Oil-nut. Buffalo-nut.)

Med. prop.: Nut—oil—acid; nut eaten by cattle.

ORDER, LORANTHACEÆ. (*Mistletoe Family.*)

PHORODENDRON, Nutt. False Mistletoe.

P. flavescens, Nutt. (Golden-bough. American Mistletoe.)

Med. prop.: Leaves — narcotic, antispasmodic, tonic, emetic, nervine, oxytocic; valuable in urethral irritation, and uterine hemorrhage.

ORDER, SAURURACEÆ. (*Lizard's-tail Family.*)

SAURURUS, L. Lizard's-tail.

S. cernuus, L. (Breast-weed.) Root used.

Med. prop.: Emollient, discutient; for inflamed breasts.

ORDER, PIPERACEÆ. (*Pepper Family.*)

ANEMOPSIS, Hook. Yerba Mansa.

A. Californica, Hook. (Yerba Mansa.)

Med. prop.: Herb — astringent, antiperiodic, febrifuge.

ORDER, CERATOPHYLLACEÆ. (*Hornwort Family.*)

CERATOPHYLLUM, L. Hornwort.

C. demersum, L. (Common Hornwort.)

Med. prop.: Plant — demulcent, emollient.

ORDER, CALLITRICHACEÆ. (*Water-Starwort
Family*)

CALLITRICHE, L. Water-Starwort.

C. verna, L. *C. heterophylla*, Pursh. *C. autumnalis*, L.
Med. prop.: Plant — diuretic; in dropsy.

ORDER, EUPHORBIACEÆ. (*Spurge Family.*)

EUPHORBIA, L. Spurge.

E. maculata, L. (Spotted Spurge. Milk Pursley.) *E. hypericifolia*, L. (Large Spotted S.) *E. corallata*, L. (Apple-root. Emetic-root. White Purslain. Blooming S. Purging-root.) *E. Ipecacuanhæ*, L. (American or Wild Ipecac. Euphorbia.) *E. HELIOSCOPIA*, L. (Sun S. Wartwort. Churnstaff. Devil's Milk.) *E. CYPARISSIAS*, L. (Cypress S.) *E. PEPLUS*, L. (Petty S.) *E. LATHYRIS*, L. (Mole-plant.) *E. albomarginata*, Torr. and Gray. (Rattlesnake-weed.)

Med. prop.: Root — diuretic, diaphoretic, expectorant, cathartic, emetic; in dropsy; juice — cathartic, antisyphilitic, poisonous; leaves — astringent, tonic, narcotic. *E. albomarginata* antidote to rattlesnake poison.

JATROPHA, L.

J. GOSSYPIFOLIA, L. (Wild Cassada.) *J. urens*, L. Var. *stimulosa*, J. Miller. (Tread Softly. Spurge-Nettle. Stinging Cassada.)

Med. prop.: Plant — acrid, irritant — poison; leaves — cathartic, errhine.

STILLINGIA, Garden.

S. sylvatica, L. (Queen's-root. Queen's Delight. Yaw-root. Silver-leaf.) *S. ligustrina*, Michx. (Stillingia.) *S. sebifera*, Michx.

Med. prop.: Root—alterative, resolvent, stimulant, diuretic, tonic, antisyphilitic, expectorant.

ACALYPHA, L. Three-seeded Mercury.

A. Virginica, L. (Mercury-weed.) Plant used.

Med. prop.: Expectorant, diuretic.

CROTON, L.

C. balsamiferum, Willd. (Seaside Balsam.)

Med. prop.: Bark—aromatic, tonic, emmenagogue; in female disorders.

MERCURIALIS, L.

M. ANNUA, L. (Mercury Herb.)

Med. prop.: Leaves—detergent, purgative, resolvent, emmenagogue; poison. (In S. Carolina.)

HIPPOMANE, L.

H. Mancinella, L. (Manchineel.)

Med. prop.: Fruit—caustic; juice—vesicant. Both poisonous, and used as an arrow poison.

RICINUS, Tourn.

R. COMMUNIS, L. (Castor-oil Plant. Palma Christa.)

Med. prop.: Oil of seed—cathartic, laxative, ophthalmic.

ORDER, EMPETRACEÆ. (*Crow-berry Family.*)

EMPETRUM, Tourn. Crowberry.

E. nigrum, L. (Black Crowberry.)

Med. prop.: Buds—emollient; edible. Dyes black.

ORDER, URTICACEÆ. (*Nettle Family.*)

ULMUS, L. Elm.

U. fulva, Mich. (Slippery or Red Elm.) U. Americana, L., Willd. (American or White E.) U. alata, Michx. (Whahoo or Fringed Elm.)

Med. prop.: Bark — mucilaginous, expectorant, diuretic, demulcent, emollient, lenitive, astringent, tonic; as poultice to inflamed parts; leaves — vulnerary.

CELTIS, Tourn. Nettle-tree. Hackberry.

C. occidentalis, L. (Sugarberry. Hackberry.)

Med. prop.: Bark — anodyne, refrigerant; buds — sweet, astringent, antisiphilitic.

MORUS, Tourn. Mulberry.

M. rubra, L. (Red Mulberry.) M. ALBA, L. (White Silkworm-tree.)

Med. prop.: Fruit — acid, antiscorbutic, laxative, refrigerant, discutient; bark — vermifuge, cathartic.

URTICA, Tourn. Nettle.

U. DIOICA, L. (Common Stinging Nettle.) U. URENS, S. (Dwarf Stinging Nettle.) U. capitata, Willd. (Common Nettle.)

Med. prop.: Plant — pectoral, diuretic, tonic, astringent; used in hemorrhage; root — diuretic, tonic, astringent; leaves — irritant, acrid. U. urens in uterine hemorrhage.

LAPORTA, Gaudichaud. Wood Nettle.

L. Canadensis, Gaudichaud. (Canada Nettle. Albany Hemp.)

Med. prop.: Root and leaves — diuretic, anodyne, tonic, astringent, pectoral.

PILEA, Lindl.

P. pumila, Gray. (Richweed. Clearweed.)

Med. prop.: Leaves — demulcent; in *Rhus* poisoning.

PARIETARIA, Tourn. Pellitory.

P. Pennsylvanica, Muhl. (American Pellitory.)

Med. prop.: Plant — diuretic, deobstruent, emmenagogue.

CANNABIS, Tourn. Hemp.

C. SATIVA, L. (Common Hemp. American H.)

Med. prop.: Tops — extract — nervine, anodyne, antispasmodic, sudorific, antisyphilitic, intoxicant, aphrodisiac, cataleptic, antirheumatic; in rheumatism and uterine hemorrhage. Dose gr. 1-4 — gr. j. in tincture.

HUMULUS, L. Hop.

H. Lupulus, L. (Common Hop.) Flowers used.

Med. prop.: Bitter, tonic, diuretic, febrifuge, anodyne, nervine, hypnotic; “hop tea” is a good stomachic; bag of dry hops under the head — “hop-pillow” — a good hypnotic for children and feeble patients.

ORDER, PLATANACEÆ. (*Plane-tree Family.*)

PLATANUS, L. Plane-tree. Buttonwood.

P. OCCIDENTALIS, L. (American Plane-tree or Sycamore.)

Med. prop.: Leaves — ophthalmic; Bark — antiscorbutic.

ORDER, JUGLANDACEÆ. (*Walnut Family.*)

JUGLANS, L. Walnut.

J. cinerea, L. (Butternut. Lemon Walnuts. English Walnut. White W.) *J. nigra*, L. (Black Walnut.) Nut edible.

Med. prop.: Bark — astringent, alterative, tonic, cathartic, cholagogue, anthelmintic; juice — herpetic.

CARYA, Nutt. Hickory.

C. olivæformis, Nutt. (Pecan.) *C. ALBA*, Nutt. (Shellbark or Shag-bark Hickory.) *C. sulcata*, Nutt. (Western Shellbark H.) *C. tomentosa*, Nutt. (Mocker-nut. White Heart H.) *C. porcina*, Nutt. (Pig-nut or Broom H.) *C. amara*, Nutt. (Bitternut. Swamp H.)

Med. prop.: Bark — acrid, astringent, cathartic; leaves — astringent; shell — astringent; fruit edible.

ORDER, CUPULIFERÆ. (*Oak Family.*)

CASTANEA, Tourn. Chestnut.

C. vesca, L. (Chestnut.) Var. *Americana*, Michx. (American C.) *C. pumila*, Michx. (Chinquapin.)

Med. prop.: Leaves — nervine, pectoral, astringent, tonic, antiperiodic; in whooping-cough and intermittents. Use infusion.

QUERCUS, L. Oak.

Q. alba, L. (White Oak.) *Q. obtusiloba*, Michx. (Post-Oak. Rough or Box White Oak.) *Q. Prinus*, L. (Chestnut Oak.) *Q. virens*, Ait. (Live Oak.) *Q. cinerea*, Michx. (Upland Willow-Oak.) *Q. aquatica*, Catesby. (Water-Oak.) *Q. nigra*, L. (Black Jack. Barren Oak.) *Q. ilicifolia*, Wang. (Bear or Black Scrub

Oak.) *Q. falcata*, Michx. (Spanish Oak.) *Q. coccinea*, Wang. (Scarlet Oak.) Var. *tinctoria*, Gray. (Quercitron. Yellow-barked or Black Oak.) *Q. rubra*, L. (Red Oak.) *Q. palustris*, DuRoi. (Swamp, Spanish or Pin Oak.) *Q. Catesbæi*, Michx. (Turkey Oak.) *Q. undulata*, Torr., Var. *pungens*, Engelm. Fruit of the last, *Q. undulata*, sweet and edible.

Med. prop.: Bark — astringent, tonic, antiseptic, bitter, febrifuge; wash for ulcers and piles; fruit in most cases edible.

FAGUS, Tourn. Beech.

F. ferruginea, Ait. (American Beech.)

Med. prop.: Bark — astringent, tonic, antiseptic fruit edible.

CORYLUS, Tourn. Hazel-nut. Filbert.

C. Americana, Walt. (American Filbert. Wild Hazel-nut.) *C. rostrata*, Ait. (Beaked Hazel-nut.)

Med. prop.: Fruit — diuretic, anodyne, anthelmintic; spicula of *C. rostrata* — anthelmintic; fruit edible.

OSTRYA, Micheli. Iron-wood. Hop-Hornbeam.

O. Virginica, Willd. (Leverwood. Iron-wood. American Hop-Hornbeam.)

Med. prop.: Bark — bitter, tonic, alterative, antiperiodic.

CARPINUS, L. Hornbeam. Iron-wood.

C. Americana, Michx. (American Hornbeam. Blue or Water Beech.)

Med. prop.: Leaves — Mild astringent.

ORDER, MYRICACEÆ. (*Sweet-Gale Family.*)

MYRICA, L. Bayberry. Wax Myrtle.

M. Gale, L. (Meadow Fern. Sweet Gale. Dutch Myrtle.) *M. cerifera*, L. (Wax Myrtle. Vegetable-

wax. Beyberry. Tallow Shrub.) Berries of first yield vegetable wax.

Med. prop.: Bark — astringent, tonic, errhine, stimulant; leaves — aromatic, stimulant; in leucorrhoea.

COMPTONIA, Solander. Sweet Fern.

C. asplenifolia, Ait. (Spleenwort-bush or Fern. Sweet Fern.) Leaves used.

Med. prop.: Astringent, diaphoretic, tonic, expectorant, sedative, febrifuge.

ORDER, BETULACEÆ. (*Birch Family.*)

BETULA, Tourn. Birch.

B. lenta, L. (Cherry Birch. Sweet, Spice, or Black Birch.) *B. alba*, Var. *populifera*, Spach. (American or White B.) *B. nigra*, L. (River or Red B.) *B. papyracea*, Ait. (Paper or Canoe Birch.) *B. alba* and *B. nigra* yield fragrant oil.

Med. prop.: Leaves and bark — aromatic, bitter, astringent, excitant, diaphoretic, stimulant; juice — antiscorbutic, anthelmintic, vulnerary, saccharine.

ALNUS, Tourn. Alder.

A. incana, Willd. (Speckled or Hoary Alder. Tag Alder.) *A. serrulata*, Ait. (American Alder. Smooth A.) Bark and leaves used.

Med. prop.: Astringent, bitter, antigalactagogue; used in dyeing and tanning.

ORDER, SALICACEÆ. (*Willow Family*)

SALIX, Tourn. Willow. Osier.

S. PURPUREA, L. (Purple Willow.) *S. lucida*, Muhl. (Shining Willow.) *S. nigra*, Marsh. (Pussy Willow.)

Black Willow.) *S. FRAGILIS*, L. (Brittle Willow.) *S. ALBA*, L. (White Willow.) *S. VIMINALIS*, L. (Basket W. Basket Osier.)

Med. prop.: Bark—bitter, astringent, antiseptic, deterative, antiperiodic, aromatic, febrifuge, tonic, mucilaginous; yields salacin and salicylic acid; leaves—astrigent; buds—aphrodisiac. In malaria and rheumatism. The ashes or lye of the twigs in intermittent fever and ague.

POPULUS, Tourn. Poplar. Aspen.

P. tremuloides, Michx. (American Aspen. American Poplar.) *P. grandidentata*, Michx. (Large-toothed Aspen.) *P. monilifera*, Ait. (Cotton-wood. Neck-lace Poplar.) *P. angulata*, Ait. (Angled Cotton-wood.)

P. Balsamifera, L. (Balsam Poplar. Tacamahac. T. P.) Var. *candicans*, Gray. (American Balm of Gilead.) *P. NIGRA*, L. (Black Poplar.) *P. ALBA*, L. (Abele. White Poplar.)

Med. prop.: Bark—stimulant, tonic, diuretic, stomachic, antiscorbutic, antiperiodic, febrifuge, bitter; used in strangury; buds—vulnerary, balsamic, or resinous, used in ointments.

ORDER, CONIFERÆ. (*Pine Family.*)

Pinus, Tourn. (Pine).

P. Taeda, L. (Loblolly or Old-field Pine.) *P. rigida*, Miller. (Pitch Pine.) *P. resinosa*, Ait. (Red Pine.) *P. Strobus*, L. (White Pine.) *P. australis*, Michx. (Long-leaved Pine. Yellow Pine.) *P. N. Lambertiana*, Dougl. (Sugar Pine.) *P. ponderosa*, Dougl. (Yellow Pine.) *P. edulis*, Engelm. (Nut-Pine.) *P. flexilis*, James. Var. *albicaulis*, Watson. *P. monophylla*, Torr. & Frem. (Nut-Pine.) *P. Torreyana*, Parry. *P. Sabiniana*, Dougl. (Nut-Pine.) Fruit of the last seven or eight species eaten by Indians of the Western States.

Med. prop.: Oleo-Resin—antiseptic, balsamic; tar—

antiseptic, pectoral; by inhalation; oil — emmenagogue; turpentine — stimulant, diuretic, diaphoretic, astringent, anthelmintic.

ABIES, Tourn. Spruce, Fir.

A. nigra, Poir. (Black or Double Spruce.) *A. Canadensis*, Michx., the *Pinus Canadensis* of Willd. (Hemlock or Weeping Spruce. *A. balsamea*, Marshall. (Hemlock Fir. Balsam Fir.) *A. Fraseri*, Pursh. (Silver Fir. Fraser's Southern Balsam Fir.)

Med. prop.: Bark — stimulant, diuretic, anthelmintic, detergent, vulnerary, astringent, diaphoretic, alterative; leaves — abortive; gum — diuretic, stimulant, rubefacient.

LARIX, Tourn. Larch.

L. Americana, Michx. (American or Black Larch. Tamarack. Hackmatack.)

Med. prop.: Bark — laxative, tonic, diuretic, alterative; gumresin — counterirritant.

THUJA, Tourn. Arbor Vitæ.

T. occidentalis, L. (American Arbor Vitæ.)

Med. prop.: Leaves — stimulant, diaphoretic, febrifuge, anthelmintic, antispasmodic. Dose gr. xv — dr. j.

CUPRESSUS, Tourn. Cypress.

C. thyroides, L. (White Cedar.) Leaves used.

Med. prop.: Aromatic, stimulant, diaphoretic, stomachic.

TAXODIUM, Richard. Bald Cypress.

T. distichum, Richard. (American Bald Cypress. Virginia C.)

Med. prop.: Oleo-resin — diuretic, carminative, vulnerary.

JUNIPERUS, L. Juniper.

J. communis, L. (Common Juniper.) J. Virginiana, L. (Pencil-wood. Red Cedar or Savin.) J. Sabina, L. Var. procumbens, Pursh. (Savin. Juniper.)

Med. prop.: Leaves — stimulant, diuretic, emmenagogue, diaphoretic, vermifuge, irritant, poison; bark — aromatic; buds and berries — diuretic. Dose gr. iij — gr. xv in powder or infusion.

EPHEDRA, Tourn.

E. antisiphilitica, C. A. Meyer.

Med. prop.: Stems — acid, astringent, antisiphilitic. Used in form of tea or tincture; in gonorrhœa and syphilis.

TAXUS, Tourn. Yew.

T. baccata, L. Var. Canadensis. (American Yew. Dwarf Yew. Ground Hemlock.) Poisonous to cattle.

Med. prop.: Leaves — antispasmodic, sedative; in epilepsy; said to act like digitalis.

TORREYA, Arnott.

T. Californica, Torr. (Californian Nutmeg.)

Med. prop.: Kernel of fruit — astringent; yields oil.

PICEA, Link. Spruce.

P. Sitchensis, Carr. (Oregon Fir. Oregon Spuce.)

Med. prop.: Oleo-resin, fresh — stimulant, diaphoretic, diuretic; may be given as tincture or in alcohol; used in plasters.

ORDER, CYCADACEÆ. (*Cycas Family.*)

ZAMIA, L.

Z. integrifolia, Willd. (Coontie. Narrow-leaved Z.)

Stem — farinaceous; yields Florida Arrow-root.

ORDER, PALMÆ. (*Palm Family.*)

Sabal, Adans. Palmetto.

S. Palmetto, R. & S. (Cabbage Palmetto.) *S. serrulata*, R. & S. (Saw Palmetto.) *S. Adansonii*, Guerns. (Dwarf Palmetto.) Buds eaten as salad. *S. serrulata*-root, yields Florida arrow-root.

CHAMÆROPS, L.

C. Hystrix, Fraser. (Blue Palmetto.)

Pith yields farina. See *Sabal*, above.

ERYTHEA, Watson.

E. edulis, Watson. Fruit edible.

COCOS, L.

C. nucifera, L. (Cocoa-nut or Cocoa-nut Palm.)

Med. prop.: Oil — pectoral; in asthma; Milk — laxative, depurative; Kernel edible.

ORDER, ARACEÆ. (*Arum Family.*)

ARISAEMA, Martins. Indian Turnip. Dragon-Arum.

A. triphyllum, Torr. (Bog Onion. Jack-in-the-Pulpit. Dragon Turnip. Indian Turnip. Wild Turnip.) *A. Dracontium*, Schott. (Green-Dragon. Dragon-root.)

Med. prop.: Root — acrid, stimulant, expectorant, carminative, diaphoretic; chiefly used externally.

PELTANDRA, Raf. Arrow Arum.

P. Virginica, Raf. (Arrow Arum.)

Med. prop.: Root — acrid, irritant, stimulant.

CALLA, L. Water Arum.

C. palustris, L. (Wild Water Arum.)

Med. prop.: Root — stimulant, caustic, mucilaginous.

SYMPLOCARPUS, Salisb. Skunk Cabbage.

S. foetidus, Salisb. (Polecat-weed. Skunk Cabbage. Swamp Cabbage.)

Med. prop.: Plant — fetid, acrid; root — expectorant, sudorific, antispasmodic, pectoral; fruit and seed — pectoral; in cough and catarrh.

ORONTIUM, L. Golden Club.

O. aquaticum, L. (Golden Club.)

Med. prop.: Seed — acid, irritant; edible.

ACORUS, L. Sweet Flag. Calamus.

A. Calamus, L. (Sweet or Sea Sedge. Myrtle-flag, Sweet Myrtle. Common Sweet Flag. Calamus.)

Med. prop.: Root — aromatic, carminative, tonic, vulnerary. Dose gr. 20 — gr. 60, in infusion.

ORDER, LEMNACEÆ. (*Duckweed Family.*)

LEMNA, L. Duckweed. Duck's-meat.

L. minor L. (Duckweed. Duck's-meat.)

Med. prop.: Plant — demulcent; used in poultices.

ORDER, TYPHACEÆ. (*Cat-tail Family.*)

TYPHA, Tourn. Cat-tail Flag.

T. latifolia, L. (Common Cat-tail or Reed-Mace.) T. angustifolia, L. (Narrow-leaved, or Small C.)

Med. prop.: Root — astringent, emollient, detersive; down used in burns.

ORDER NAIADACEÆ. (*Pond-weed Family.*)

NAISA, L. Naiad.

N. flexilis, Rostk. (Water Nymph.)

Med. prop.: Leaves — astringent, maturative.

RUPPIA, L. Ditch-grass.

R. maritima, L. (Ditch-grass.)

Med. prop.: Plant — vulnerary, depurative.

ORDER, ALISMACEÆ. (*Water-Plantain Family.*)

TRIGLOCHIN, L. Arrow-grass.

T. maritimum, L. (Sea-side Arrow-grass.)

Med. prop.: Plant — saccharine.

ALISMA, L. Water Plantain.

A. Plantago, L. (Water Plantain.)

Med. prop.: Leaves — vesicant, diuretic, lithontryptic.

SAGITTARIA, L. Arrow-head.

S. variabilis, Engelm. (Arrow-weed or head.)

Med. prop.: Leaves — anti-galactagogue; root yields fecula.

ORDER, HYDROCHARIDACEÆ. (*Frog's-bit Family.*)

VALLISNERIA, Micheli. (Tape-grass. Eel-grass.)

V. spiralis, L. (Tape-grass. Eel-grass.)

Med. prop.: Plant — refrigerant, demulcent.

ORDER, ORCHIDACEÆ (*Orchis Family.*)

ORCHIS, L. Orchis.

O. spectabilis, L. (Showy Orchis.)

Root yields salep.

GOODYERA, R. BR. Rattlesnake Plantain.

G. repens, R. Br. (Scrofula-weed. Net-leaved Plantain. White Plantain.) *G. pubescens*, R. Br. (Adders Violet. Rattlesnake-weed.)

Med. prop.: Plant—antiscrofulous; demulcent, ophthalmic; used in female complaints.

CORALORHIZA, Haller. Coral-root.

C. odontorhiza, Nutt. (Coral-root. Crawley-root.)

Med. prop.: Root—diaphoretic, sudorific, sedative, febrifuge; in quinsy: powder in fever. gr. x—gr. xxx.

APLECTRUM, Nutt. Putty-root. Adam-and-Eve.

A. hyemale Nutt. (Putty-root. Adam-and-Eve.)

Med. prop.: Root—mucilaginous, pectoral.

CYPRIPEDIUM, L. Lady's Slipper. Moccasin Flower or Plant.

C. arietinum, R. Br. (Ram's-Head L.) *C. candidum*, Muhl. (Small White Lady's S.) *C. parviflorum*, Salisb. (Small Yellow L.) *C. pubescens*, Willd. (Larger Yellow L. Noah's Ark. Yellow Moccasin. Male Nervine. Nerve-root. Moccasin-root.) *C. spectabile*, Swartz. (Female Nervine. Showy L.) *C. acaule*, Ait. (Whip-poor-will's-shoe. Stemless L.)

Med. prop.: Root—tonic, stimulant, nervine, antispasmodic, narcotic, diaphoretic, hypnotic. Dose gr. xv three times a day in powder, infusion or tincture.

VANILLA, Swartz.

V. planifolia, Andr. (Vanilla-plant.)

Med. prop.: Pods—aromatic, stimulant, aphrodisiac.

ORDER, AMARYLLIDACEÆ. (*Amaryllis Family.*)

AMARYLLIS, L.

A. Atamasco, L. (Amaryllis. Stagger-grass. Atamasco Lily.)

Med. prop.: Root—acid, irritant.

PANCRACTIUM, L.

P. maritimum, L. (Squillily.)

Med. prop.: Root—emetic, diuretic; as scilla.

AGAVE, L. American Aloe.

A. Americana, L. (American Agave. American Century-Plant.) *A. Virginica*, L. (False Aloe. Virginia Agave.) *A. Palmeri*, Roth. *A. Parryi*, Engelm. (Mesical.)

Med. prop.: Root—Bitter, cathartic, diuretic, anti-syphilitic, mucilaginous, detergent. Juice distilled for whiskey—Mesical Whiskey—when fresh, hotter than corn whiskey. Unopened interior leaves—roasted for food, laxative. Used as substitute for soap by Indians and Mexicans.

CRINUM, L.

C. Americanum, L. (Jonquil.) Bulb used.

Med. prop.: Expectorant, stimulant; as squill.

HYPOXYS, L. Star-grass.

H. erecta, L. (Star-grass. Star-root.) Root used.

Med. prop.: Detersive, vulnerary; in ague; edible.

ORDER, HÆMODORACEÆ. (*Bloodwort Family.*)

LACHNANTHES, L. Red-root.

L. tinctoria, Ell. (Spirit-weed. Indian Red-root.)

Med. prop.: Herb — stimulant, excitant; like Belladonna.

ALETRIS, L. Colic-root. Star-grass.

A. farinosa, L. (Unicorn-root. Ague-root.) A. aurea, Walt. (Yellow Star-root.)

Med. prop.: Root — bitter, tonic, stomachic; in uterine disorders, colic.

ORDER, BROMELIACEÆ. (*Pine-Apple Family.*)

TILLANDSIA, L. Long Moss. Air-Plant.

T. usneoides, L. (Common Long Moss. Black Moss. Spanish Moss.)

Powder used in lard for piles.

ORDER, IRIDACEÆ. (*Iris Family.*)

IRIS, L. Flower-de-Luce.

I. versicolor, L. (Larger Blue Flag. Water Flag.) I. Virginica, L. (Slender Blue Flag.) I. verna, L. (Dwarf Iris.) I. hexagona, Walt. (Blue Flag.) I. lacustris, Nutt. (Lake Dwarf Iris.)

Med. prop.: Root — alterative, resolvent, sialagogue, laxative, diuretic, antisyphilitic, vermifuge.

PARDANTHUS, Ker. Blackberry Lily.

P. CHINENSIS, Ker. (Blackberry Lily.)

Med. prop.: Bulb — drastic, diuretic.

SISYRINCHIUM, L. Blue-eyed Grass.

S. Burmudiana, L. (Blue-eyed Lily or Grass.)

Med. prop.: Root — acrid, cathartic.

ORDER, DIOSCOREACEÆ. (*Yam Family.*)

DIOSCOREA, Plumier. Yam.

D. villosa, L. (Wild Yam-root. Colic-root.)

Med. prop.: Root — antispasmodic, diaphoretic; used in bilious colic: in female complaints. Maisch says it is expectorant and emetic.

ORDER, SMILACEÆ. (*Smilax Family.*)

SMILAX, Tourn. Greenbrier. Catbrier.

S. rotundifolia, L. (Brier. Common Greenbrier.) S. glauca, Walt. (Virginia Sarsaparilla. American Smilax. Bamboo-Brier.) S. tamnoides, L. (American China-root.) S. Pseudo-China, L. (False or American China-root.) S. herbacea, L. (Carrion Flower.)

Med. prop.: Root — alterative, demulcent, diuretic, antisyphilitic, depurative, emmenagogue, discutient; stem, especially of S. herbacea — alterative, diuretic, emmenagogue. S. Californica, Gray., may possess similar properties.

COPROSMANTHUS, Torr.

C. peduncularis, Kunth. (Jacob's-Ladder Vine.)

Med. prop.: Root and stem — diuretic, alterative, emmenagogue.

ORDER, LILIACEÆ. (*Lily Family.*)

TRILLIUM, L. Beth-root. Three-Leaved Nightshade.

T. sessile, L. T. grandiflorum, Salisb. (Large White T. Wake Robin.) T. erectum, L. (Purple T. Birthroot.) Var. album, Pursh. (Indian Balm. Cough-root.) T. nivale, Riddell. (Dwarf White T.) T. erythrocarpum, Michx. (Painted T.)

Med. prop.: Root — astringent, tonic, alterative, antiseptic, expectorant, diaphoretic, emmenagogue; used in menorrhagia, and other uterine disorders.

MEDEOLA, Gronov. Indian Cucumber.

M. Virginica, L. (Indian Cucumber-root.)

Med. prop.: Root — diuretic, hydragogue, cathartic.

MELANTHIUM, Gronov., L.

M. Virgnicum, L. (Bunch-flower. Quafodil. Black-flower.)

Med. prop.: Root — used in itch; a fly and crow poison.

ZYGADENUS, Michx. Zygadene.

Z. venenosus, Watson. (Hog's Potato. Death-Camass.)

Med. prop.: Unknown; — poisonous bulb; eaten by hogs. Z. paniculatus, Watson, is also poisonous.

VERATRUM, Tourn. False Hellebore.

V. viride, Ait. (Itch-weed. American White Hellebore. Bugbane. Indian Poke.)

Med. prop.: Root — narcotic, nervine, antispasmodic, alterative, resolvent, arterial sedative, emetic, expectorant, diaphoretic, febrifuge; in congestions of the brain and lungs; insecticide.

V. Californicum, Durand, called V. album by Watson, may have similar properties.

HELONIAS, L.

H. bullata, L. (Wild Helonias. False Unicorn.)

Med. prop.: Root — tonic, alterative; in female complaints.

CHAMÆLIRIUM, Willd. Devil's-bit.

C. luteum, Gray. (Blazing Star.)

Med. prop.: Root — alterative, tonic, diuretic, emmenagogue, vermifuge, uterine tonic.

UVULARIA, L. Bellwort.

U. grandiflora, Smith. (Large-flowered Bellwort.) U. ✓ perfoliata, L. (Bellwort.)

Med. prop.: Plant — tonic, demulcent, nervine, herpetic; aliment.

CONVALLARIA, L. Lily-of-the-Valley.

C. majalis, L. (Lily-of-the-valley. May Lily.)

Med. prop.: Root — mucilaginous, sweet; cardiac tonic like digitalis, but not cumulative in its action; in cardiac disease attended by dropsy it acts as a diuretic. May be given in infusion.

SMILACINA, Desf. False Solomon's Seal.

S. racemosa, Desf. (False Spikenard.)

Med. prop.: Root — alterative, diuretic, diaphoretic, depurative.

POLYGONATUM, Tourn. Solomon's Seal.

P. biflorum, Ell. (Smaller Solomon's Seal.) P. giganteum, Dietrich. (Great S.)

Med. prop.: Root — astringent, tonic, mucilaginous,

emetic, expectorant; used in uterine disorders; plant — according to Dr. J. H. Rauch — is diuretic, diaphoretic, emetic, cathartic. May be given in infusion.

ASPARAGUS, L. Asparagus.

A. OFFICINALIS, L. (Garden Asparagus. Sparrow-grass.)

Med. prop.: Young shoots — diuretic, arterial sedative, aperient, deobstruent; edible.

LILIUM, L. Lily.

L. CANADENSE, L. (Wild Yellow Lily. Nodding Lily.)

Med. prop.: Root — cathartic, maturative.

ERYTHRONIUM, L. Dog's-tooth Violet.

E. Americanum, Smith. (Rattlesnake Violet. Scrofula-root. Yellow Adders-tongue. Adder's-leaf.)

Med. prop.: Plant — emetic, emollient, antiscrofulous.

ORNITHOGALUM, Tourn. Star-of-Bethlehem.

O. UMBELLATUM, L. (Star-of-Bethlehem.)

Med. prop.: Seed — aromatic; condiment; root edible.

ALLIUM, L. Onion. Garlic.

A. tricoccum, Ait. (Wild Leek.) A. Schoenoprasum, L. (Chives.)

A. VINEALE, L. (Field Garlic.) A. Canadense, Kalm. (Wild Garlic.)

Med. prop.: Bulb — stimulant, diuretic, expectorant, emollient, maturative, anthelmintic, diaphoretic.

SCILLA, L. Squill.

S. Fraseri, Gray. (Eastern Quamash. Wild Hyacinth.)

Med. prop.: Root — emollient to inflamed breasts; esculent.

MUSCARI, Tourn. Grape Hyacinth.

M. BOTRYOIDES, Mill. (Globe Hyacinth.)

Med. prop.: Bulb — acrid, cathartic, diuretic, emetic.

HEMEROCALLIS, L. Day-Lily.

H. FULVA, L. (Common Day-Lily. Funkia.)

Med. prop.: Root — cathartic; leaves — refrigerant.

YUCCA, L. Bear-Grass. Spanish Bayonet.

Y. filamentosa, L. (Silk-grass. Adam's Needle. Bear's-grass.) *Y. baccata*, Torr. The last has a sweet edible fruit called dates or bananas by settlers, and eaten by Indians and others. *Y. gloriosa*, L. Yields cassava.

Med. prop.: Root — antisyphilitic, detersive; saponaceous.

NARTHECIUM, Moering. Bog Asphodel.

N. ossefragum, Huds. Var. *Americanum*, Gray. (False Asphodel.)

Med. prop.: Root — diuretic.

CAMASSIA, Lindl. Camass.

C. esculenta, Lindl. (Prairie Turnip. Green Camass. Quamash.) Root edible; used largely for food by the Indians.

HESPEROCALLIS, Gray.

H. undulata, Gray. Bulb eaten by the Indians.

CHLOROGALUM, Kunth. Amole.

C. pomeridianum, Kunth. (California Soapwort. Soapplant.)

Med. prop.: Buds — Saponaceous, detergent.

ORDER, JUNCACEÆ. (*Rush Family.*)

JUNCUS, L. Rush. Bog Rush.

J. effusus, L. (Common or Soft Rush. Bulrush.)

J. bufonius, L.

Med. prop.: Plant—diuretic, cathartic, mildly astringent.

ORDER, COMMELYNACEÆ. (*Spiderwort Family.*)

COMMELYN, Dill. Day-Flower.

C. Virginica, L. Var. augustifolia. (Day-flower.)

Med. prop.: Plant — expectorant, emollient, anodyne;
root — febrifuge.

TRADESCANTIA, L. Spiderwort.

T. Virginica, L. (Common Spiderwort.)

Med. prop.: Root — demulcent.

ORDER, XYRIDACEÆ. (*Yellow-eyed-grass Family.*)

XYRIS, L. Yellow-eyed Grass.

X. Caroliniana, Walt. (Yellow-eyed Grass.)

Med. prop.: Herb — astringent; used in skin diseases.

ORDER, CYPERACEÆ. (*Sedge Family.*)

CYPERUS, L. Galingale.

C. rotundus, L. Var. Hydra, Gray. (Nut-grass.)

Med. prop.: Root—aromatic, bitter; in cholera;
edible.

SCIRPUS, L. Bulrush or Club Rush.

S. maritimus, L. (Sea Club-Rush.) S. lacustris, L.

Med. prop.: Plant — diuretic, astringent; seed — hypnotic, diuretic, astringent, emmenagogue.

ORDER, GRAMINEÆ. (*Grass Family.*)

ZIZANIA. Gronov. Water or Indian Rice.

Z. aquatica, L. (Indian Rice. Water Oats. Wild Rice.) Seed used for food.

GLYCERIA, R. Br., Trin. Manna Grass.

G. fluitans, R. Br.: (Manna Croup. Russia Salad.)
G. maritima, Wahl. (Sea Spear-Grass.) G. distans,
Wahl. (Sea Spur-grass.)

Seed — nutriment; tops — salad.

BROMUS, L. Brome-Grass.

B. secalinus, L. (Cheat or Chess.) B. mollis, L.
(Soft Chess.) B. ciliatus, L. (Brome-grass.)

Med. prop.: Plant — emetic, anthelmintic, cathartic,
diuretic; seed — narcotic, perhaps purgative.

PHRAGMITES, Trin. Reed.

P. communis, Trin. (Common Reed.)

Med. prop.: Root — diuretic, depurative.

LOLIUM, L. Darnel.

L. tremulentum, L. (Bearded Darnel.)

Med. prop.: Seed — emetic, nauseant; poisonous.

CALAMAGROSTIS, Adans. Reed Bent-Grass.

C. stricta, Trin., Var. robusta, Roth. Some specimens are affected with an ergot.

POA, L. Meadow Grass. Spear-Grass.

P. tennifolia, Nutt. The grain gathered extensively by the Indians for food.

TRITICUM, L. Wheat.

T. repens, L. (Knot-grass. Couch, Quitch or Quick-grass.) *T. caninum*, L. (Dog-Grass. Awned Wheat-Grass.)

Med. prop.: Root — diuretic, aperient; in dropsy.

ANTHROXANTHUM, L. Vernal-grass.

A. odoratum, L. (Sweet Vernal-Grass.)

Med. prop.: Plant — aromatic.

PHALARIS, L. Canary Grass.

P. canariensis, L. (Canary Grass.)

Med. prop.: Seed — diuretic; nutritious.

CTENIUM, Panz.

C. Americanum, Spreng. (Toothache-grass.)

Med. prop.: Root — pungent; in toothache.

SPOROBOLUS, R. BR. Drop-seed Grass.

S. airoides, Torr. (California Drop-seed G.)

Med. prop.: Plant — diuretic.

ORDER, EQUISETACEÆ. (*Horsetail Family.*)

EQUISETUM, L. Horsetail. Scouring Rush.

E. arvense, L. (Common Horsetail.) *E. lævigatum*, Braun. *E. robustum*, Braun. *E. hyemale*, L. (Scouring Rush. Maretail. Shave Grass.) *E. limosum*, L.

Med. prop.: Plant — diuretic, astringent, tonic.

ORDER, FILICES. (*Fern Family.*)

POLYPODIUM, L. Polypody.

H. vulgare, L. (Polypody. Rockbrake.) *P. incanum*, Swartz. (Rockbrake. Bracken.)

Med. prop.: Plant — diuretic, cholagogue, purgative, sweet; root — demulcent, cathartic, anthelmintic.

ADIANTUM, L. Maidenhair.

A. pedatum, L. (American Maidenhair. Rock Fern.)
A. Capillus-Veneris, L. (Venus Maidenhair. European M.)

Med. prop.: Plant — pectoral, mucilaginous, expectorant, refrigerant, tonic; aromatic.

PTERIS, L. Brake or Bracken.

✓ *P. aquilina*, L. (Common Brake. Female Fern.)
 Var. *laringinosa*, Hook. Used like *Asparagus* by California Miners.

Med. prop.: Root — anthelmintic; in tape-worm.

PELLÆA, Link. Cliff Brake.

P. atropurpurea, Link. (Winter-brake. Cliff or Rock-Brake.)

Med. prop.: Plant — astringent, anthelmintic; in night sweats and uterine disorders.

ASPLENIUM, L. Spleenwort.

A. Trichomanes, L. *A. Ruta-muraria*, L. (Wall Rue.)
A. angustifolium, Michx. (Swamp Spleenwort.) *A. Felix-fœmina*, Bernh. (Backache-Fern. Female Fern.)

Med. prop.: Root — astringent, anthelmintic; for round worms; in lumbago.

SCOLOPENDRIUM, Smith. Hart's-Tongue.

S. vulgare, Smith. (Hart's-Tongue Spleenwort.)

Med. prop.: Leaves — astringent, pectoral, vulnerary.

CAMPTOSORUS, Lin. Walking-Leaf.

C. rhizophyllus, Link. (Walking Leaf.)

Med. prop.: Plant — tonic, mucilaginous, subastringent.

ASPIDIUM, Swartz. Shield-Fern. Wood-F.

A. Goldianum, Hook. (Male Fern.) *A. Filix-mas*, Swartz. (Male Fern.) *A. marginale*, Swartz. *A. rigidum*, Swartz.

Med. prop.: Root — anthelmintic; used against tapeworm. Dose in substance gr. 30, to dr. 2; oleoresin gr. v. to gr. xv.

OSMUNDA, L. Flowering Fern.

O. regalis, L. (Buckhorn Brake. Flowering F.) *O. cinnamomea*, L. (Cinnamon-Fern.)

Med. prop.: Root — astringent, mucilaginous, tonic, styptic; used in female complaints.

BOTRYCHIUM, Swartz. Moonwort.

B. Lunaria, Swartz. (Moonwort.) *B. Virginicum*, Swartz. (Rattlesnake Fern.) *B. lunarioides*, Swartz.

Med. prop.: Leaves — astringent, vulnerary.

OPHIOGLOSSUM, L. Adder's-Tongue.

O. vulgatum, L. (Adder's-tongue Fern.)

Med. prop.: Plant — vulnerary; used in ointments.

ACROSTICHUM, L.

A. aureum, L. (Forked Fern.)

Med. prop.: Plant — pectoral, astringent.

ORDER, LYCOPODIACEÆ. (*Club-Moss Family.*)

LYCOPODIUM, L. Spring. Club Moss.

L. lucidulum, Michx. (Moon-fruit Pine.) L. Selago,
L. (Fir Club-moss.) L. clavatum, L. (Vegetable
Brimstone. Fox-tail. Club-Moss. Wolf-claw.) S.
Complanatum, S. (Ground Pine.)

Med. prop.: Plant — emetic, purgative, abortive;
insecticide; Pollen — especially of L. clavatum — in ex-
coriations of infants.

ORDER, MUSCI.

POLYTRICHUM, Dill.

P. juniperum, Hedw. (Hair Cap Moss.)

Med. prop.: Plant — diuretic; in dropsy.

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